BARCO Video & Communications n.v.
Industrial Monitors

Noordlaan 5, B-8720 Kuurne (Belgium)
Tel. (056) 36.82.11
Telex 85.305
Telefax (056) 35.16.51

BARCO

DCD
2240-2440-2640-2740-2840
PCD
1640

Service Manual

Rev. 02
DATE : 12/09/89

ART. No. 59 75312

CONTENTS

Inhoud - Contenu - Contents - Inhalt ..... **page 1**

DCD/PCD Monitors: Parts list on board level 3
DCD 2240 6
DCD 2640 8
DCD 2740 10
PCD 1640 12

Ceiling mounting yoke for monitors 13

Contrast enhancer 17

Service sheets ..... **page ref.**

Pal-Secam DECODER + RGB 76 1162
P/S/N3/N4 DECODER + RGB AMPLIFIER 76 1368
76 13688

Pal DECODER + RGB AMPLIFIER 76 1369
Pal DECODER CTI + RGB AMPLIFIER 76 1400
76 14007
76 14009

P/S/NTSC4.43 + RGB AMPLIFIER 76 1454
76 14549

P/S/N3/N4 DECODER + RGB AMPLIFIER 76 1455
76 14559
76 14556
76 14557
76 14558

RGB 40 MHz AMPLIFIER 76 1366

Current sense ABL BOARD 76 1293
76 12934
76 12937
76 12938

CSB PCD 1640 ..... 79 15067
CSB RGB PCD 1640 LP 79 15069
Mains Switch PCD 1640 ..... 79 1532

CRT Socket PCD 1640 LP 76 1375

Power Input Board 76 1287

In/Output module + Controls DCD 2740/2240 ..... 76 1194

CONTENTS

In/Output Module + Controls DCD 2640 ..... 76 1332
In/Output Module + Controls DCD 2740 QUAD DATA 76 11948
In/Output module + Controls PCD 1640 ..... 76 1340
In/Output module PCD 1640 ..... 76 1344

In/Output PSM Module DCD 2640 AC PAL 76 1341
In/Output PSM Module DCD 2640 AC PAL 76 13411

In/Output PSM Module DCD 2740 ..... 76 1342
In/Output PSM Module DCD 2640 ..... 76 1343

FRAME PCD 1640 LP 76 13720
FRAME PCD 1640 ..... 76 13721
FRAME DCD 2640 ..... 76 13722
FRAME PCD 1640 S 76 13723
FRAME DCD 2240 SD 76 13724
FRAME DCD 2740 ..... 76 13727
FRAME PCD 1640 LZ 76 1408
FRAME DCD 2740 DATA 76 14084
FRAME DCD 2840 ..... 76 14087

Parts list on board level

DCD / PCD MONITORS

REF. TYPE	PARTS LIST ON BOARD LEVEL				
	DECODER				
ART. No DESCRIPTION	PAL	PSN4	QUAD	P/S	RGB 30MHz
93 30035 DCD 2240 PAL	76 1400				
93 30045 DCD 2240 QUAD			76 1455		
93 30055 DCD 2740 PAL	76 14009				
93 30065 DCD 2740 QUAD			76 14559		
93 30075 DCD 2740 PSN4		76 14549			
93 30105 DCD PAD 2240 PAL	76 1400				
93 30115 DCD PAD 2740 PAL	76 14009				
93 30127 DCD 2740 PAL AC	76 14009				
93 30137 DCD 2640 PAL PSM	76 1400				
93 30145 DCD 2240 PSN4		76 1454			
93 30155 DCD 2640 PAL	761400				
93 30165 DCD 2640 QUAD			761455		
93 30175 DCD 2640 PSN4		76 1454			
93 30187 DCD 2640 PAL AC	76 1400				
93 30197 DCD 2240 PAL AC	76 1400				
93 30215 DCD 2640 PAL SIE	76 1400				
93 30225 DCD 2640 QUAD SIE			76 1455		
93 30235 DCD 2740 D DATA				76 1162	
93 30255 DCD 2240 PAL S D	76 1400				
93 30275 DCD 2440 QUAD PSM			76 1455		
93 30285 DCD 2840 QUAD PSM			76 1455		
93 30297 DCD 2640 PAL CVS	76 1400				
93 30315 PAT DCD 2740 QUAD			76 14559		
93 30323 DCD 2640 PAL AC WT	76 1400				
93 30335 DCD 2740 PAL S D	76 14009				
93 30345 DCD 2740 QUAD DATA			76 14556		
93 30367 DCD 2240 PAL PSM	76 1400				
93 30405 DCD 2440 PSN4		76 1454			
93 30415 DCD 2840 PSN4		76 1454			
93 30435 DCD 2440 PAL	76 1400				
93 30445 DCD 2840 PAL	76 1400				
93 31003 PCD 1640 QUAD HR			76 13688		
93 31013 PCD 1640 RGB LP					76 1366
93 31053 PCD 1640 QUAD SR			76 14557		
93 31063 PAD 1640 QUAD SR			76 14557		
93 31073 PCD PAT 16H40 QUAD			76 14557		
93 31083 PCD 1640 HRLZ QUAD			76 14557		

Parts list on board level

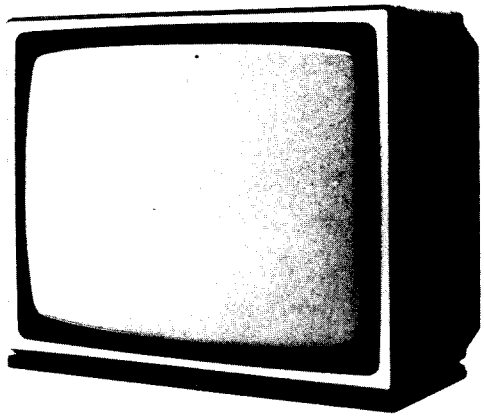
DCD / PCD MONITORS

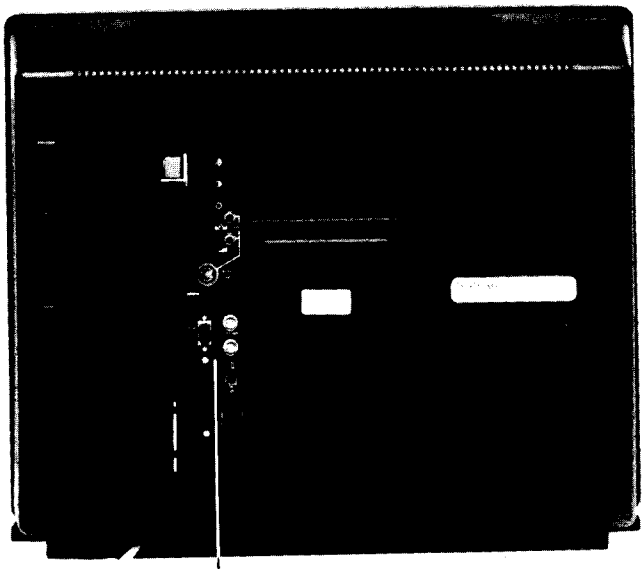
REF. TYPE		PARTS LIST ON BOARD LEVEL				
		Frame		Panel Contr	In/Out	Panel Contr
ART. No	DESCRIPTION	76 1372x	76 1408x	In/Out	PSM	D PAD
93 30035	DCD 2240 PAL	76 13727		76 1194		
93 30045	DCD 2240 QUAD	76 13727			76 1342	
93 30055	DCD 2740 PAL	76 13727		76 1194		
93 30065	DCD 2740 QUAD	76 13727			76 1342	
93 30075	DCD 2740 PSN4	76 13727		76 1194		
93 30105	DCD PAD 2240 PAL	76 13727				76 1333B
93 30115	DCD PAD 2740 PAL	76 13727				76 1333B
93 30127	DCD 2740 PAL AC	76 13727		76 1330		
93 30137	DCD 2640 PAL PSM	76 13722			76 1341	
93 30145	DCD 2240 PSN4	76 13727		76 1194		
93 30155	DCD 2640 PAL	76 13722		76 1332		
93 30165	DCD 2640 QUAD	76 13722			76 1343	
93 30175	DCD 2640 PSN4	76 13722		76 1332		
93 30187	DCD 2640 PAL AC	76 13722		76 13327		
93 30197	DCD 2240 PAL AC	76 13727		76 1330		
93 30215	DCD 2640 PAL SIE	76 13722		76 13328		
93 30225	DCD 2640 QUAD SIE	76 13722		76 13328		
93 30235	DCD 2740 D DATA	76 13727		76 1194		
93 30255	DCD 2240 PAL S D	76 13724		76 11941		
93 30275	DCD 2440 QUAD PSM		76 14087		76 1342	
93 30285	DCD 2840 QUAD PSM		76 14087		76 1342	
93 30297	DCD 2640 PAL CVS	76 13722		76 13326		
93 30315	PAT DCD 2740 QUAD	76 13727				
93 30323	DCD 2640 PAL AC WT	76 13722		76 13327		
93 30335	DCD 2740 PAL S D	76 13727		76 11941		
93 30345	DCD 2740 QUAD DATA		76 14084	76 11948		
93 30367	DCD 2240 PAL PSM	76 13727			76 1342	
93 30405	DCD 2440 PSN4		76 14087	76 1194		
93 30415	DCD 2840 PSN4		76 14087	76 1194		
93 30435	DCD 2440 PAL		76 14087	76 1194		
93 30445	DCD 2840 PAL		76 14087	76 1194		
93 31003	PCD 1640 QUAD HR	76 13721		76 1340		
93 31013	PCD 1640 RGB LP		76 13720	76 1344		
93 31053	PCD 1640 QUAD SR	76 13723		76 1340		
93 31063	PAD 1640 QUAD SR	76 13723				76 13337
93 31073	PCD PAT 16H40 QUAD		76 1408			
93 31083	PCD 1640 HRLZ QUAD		76 1408	76 1340		

Parts list on board level

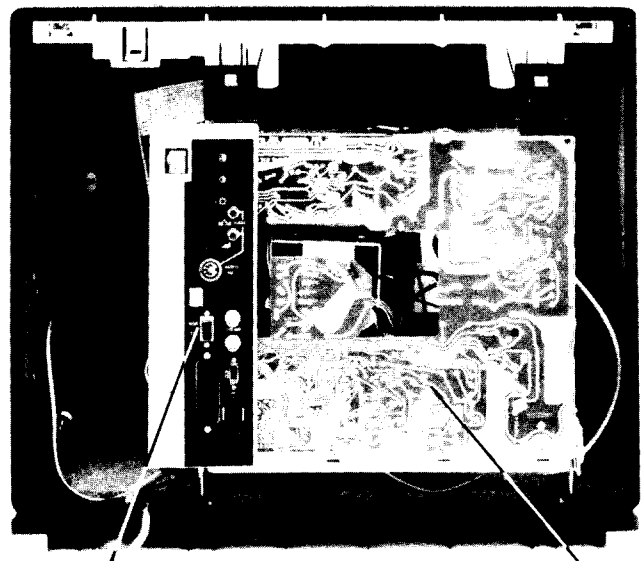
DCD / PCD MONITORS

REF. TYPE		PARTS LIST ON BOARD LEVEL				
ART. No	DESCRIPTION	PAT	CSB	MAINS CHOKE	MAINS UNIT	SUPPLY
93 30035	DCD 2240 PAL					
93 30045	DCD 2240 QUAD					
93 30055	DCD 2740 PAL					
93 30065	DCD 2740 QUAD					
93 30075	DCD 2740 PSN4					
93 30105	DCD PAD 2240 PAL					
93 30115	DCD PAD 2740 PAL					
93 30127	DCD 2740 PAL AC					
93 30137	DCD 2640 PAL PSM					
93 30145	DCD 2240 PSN4					
93 30155	DCD 2640 PAL					
93 30165	DCD 2640 QUAD					
93 30175	DCD 2640 PSN4					
93 30187	DCD 2640 PAL AC					
93 30197	DCD 2240 PAL AC					
93 30215	DCD 2640 PAL SIE					
93 30225	DCD 2640 QUAD SIE					
93 30235	DCD 2740 D DATA					
93 30255	DCD 2240 PAL S D			76 1287		
93 30275	DCD 2440 QUAD PSM					
93 30285	DCD 2840 QUAD PSM					
93 30297	DCD 2640 PAL CVS					
93 30315	PAT DCD 2740 QUAD	76 14468				
93 30323	DCD 2640 PAL AC WT			76 1287		
93 30335	DCD 2740 PAL S D					
93 30345	DCD 2740 QUAD DATA					
93 30367	DCD 2240 PAL PSM					
93 30405	DCD 2440 PSN4					
93 30415	DCD 2840 PSN4					
93 30435	DCD 2440 PAL					
93 30445	DCD 2840 PAL					
93 31003	PCD 1640 QUAD HR		79 15067		79 1532	
93 31013	PCD 1640 RGB LP		79 15069	76 1287	79 1532	
93 31053	PCD 1640 QUAD SR		79 15067		79 1532	
93 31063	PAD 1640 QUAD SR		79 15067		79 1532	
93 31073	PCD PAT 16H40 QUAD		79 15068	76 14557	79 1532	76 1444
93 31083	PCD 1640 HRLZ QUAD		79 15067	76 14557	79 1532	



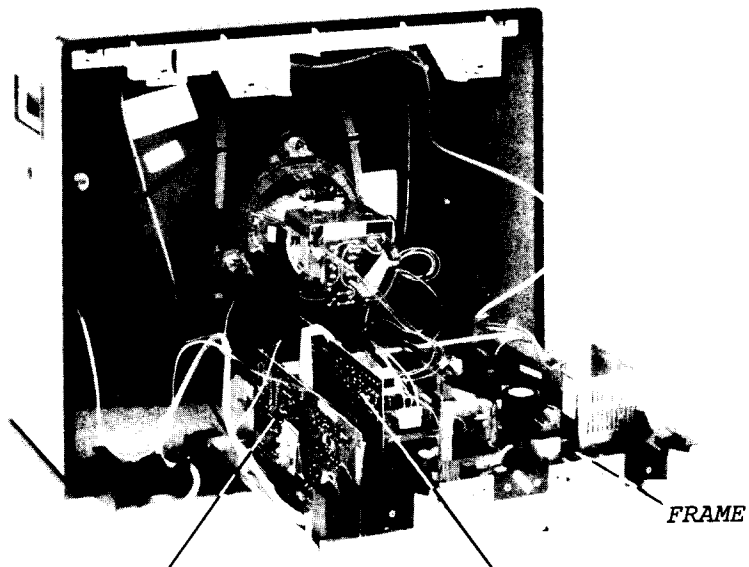


INPUT MODULE + POWER SWITCH + CONTROLS



INPUT MODULE + POWER SWITCH + CONTROLS

FRAME

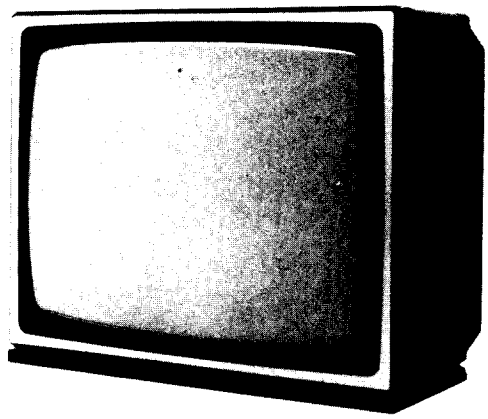


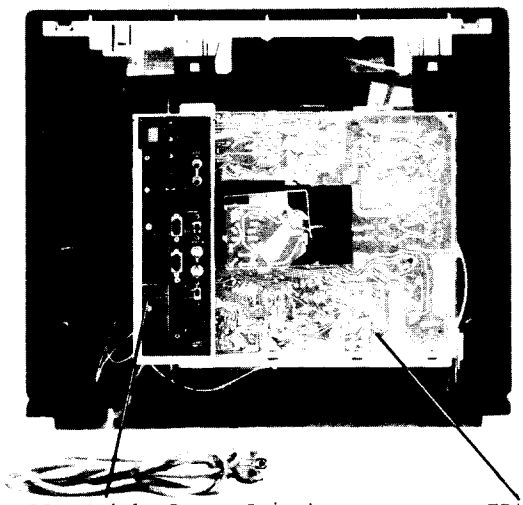
FRAME

INPUT MODULE + POWER SWITCH + CONTROLS

DECODER

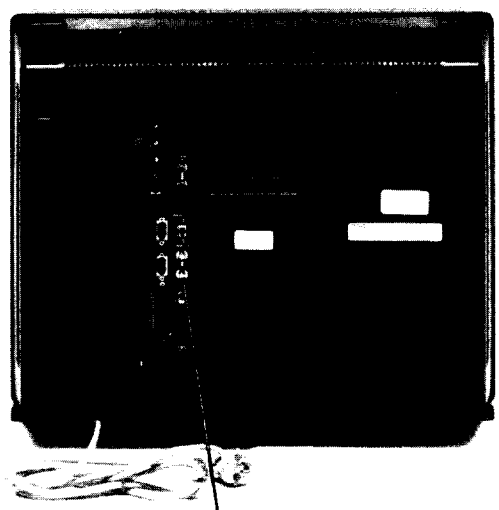
DCD 2240 (WITH PRIORITY SWITCHING MODULE)



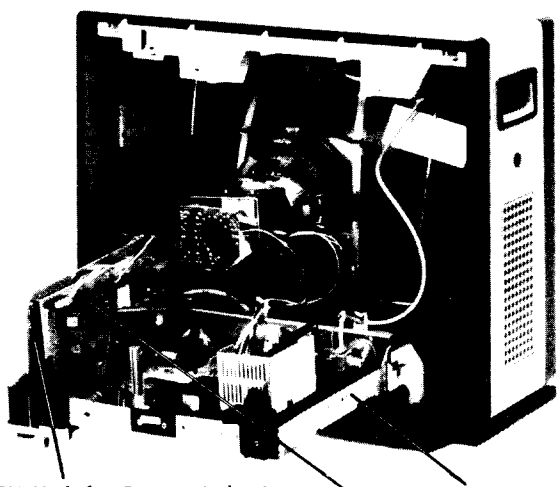


PSM Module+Power Switch+ Controls

FRAME



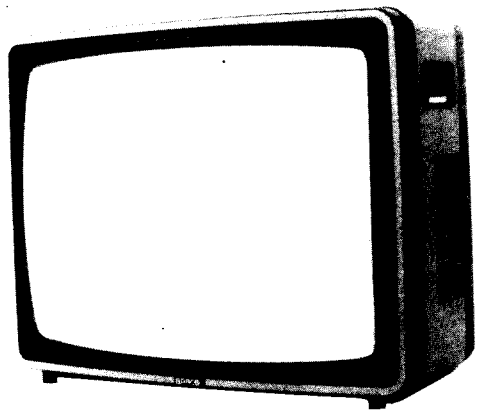
PSM Module+Power Switch+ Controls

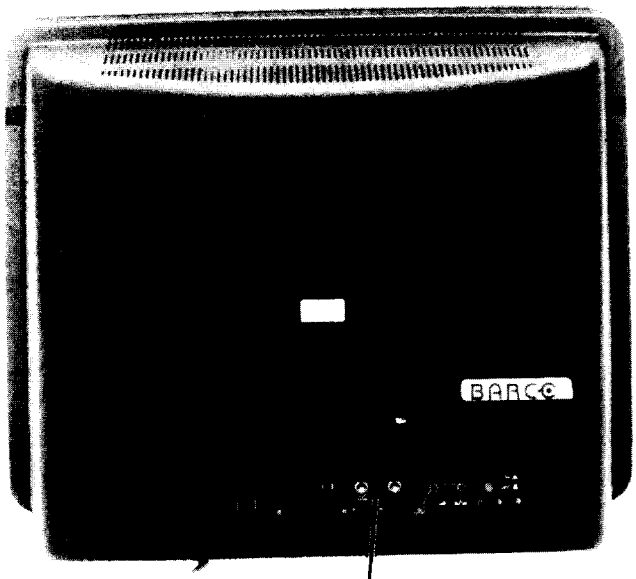


PSM Module+Power Switch+ Controls

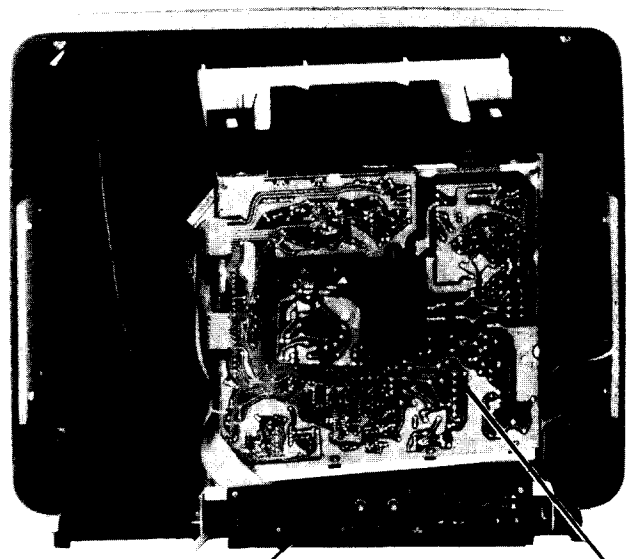
DECODER

FRAME



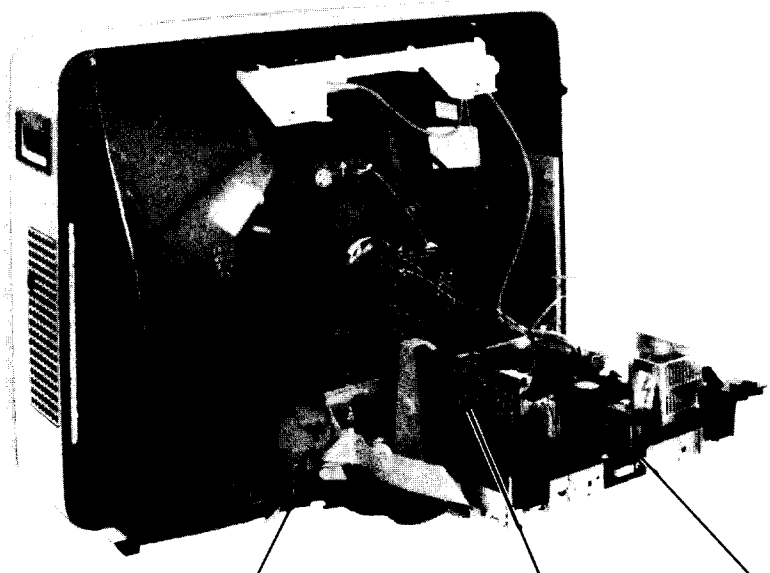


INPUT MODULE + POWER SWITCH + CONTROLS



INPUT MODULE + POWER SWITCH + CONTROLS

FRAME

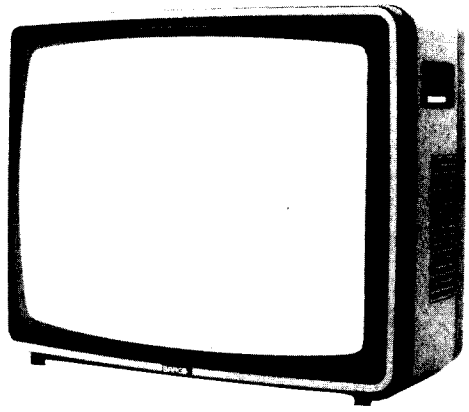


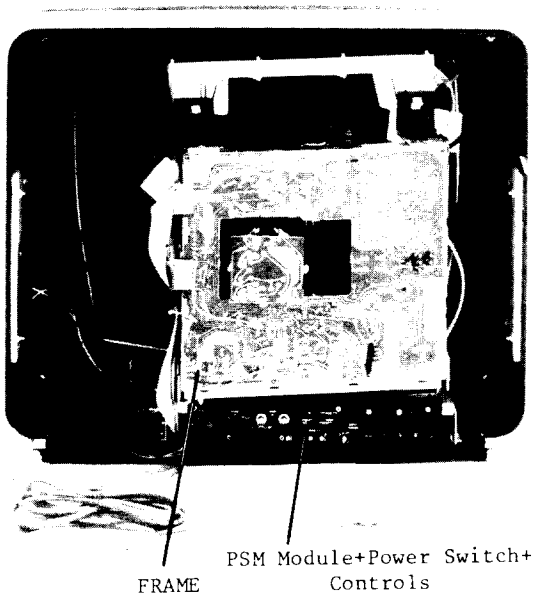
INPUT MODULE + POWER SWITCH + CONTROLS

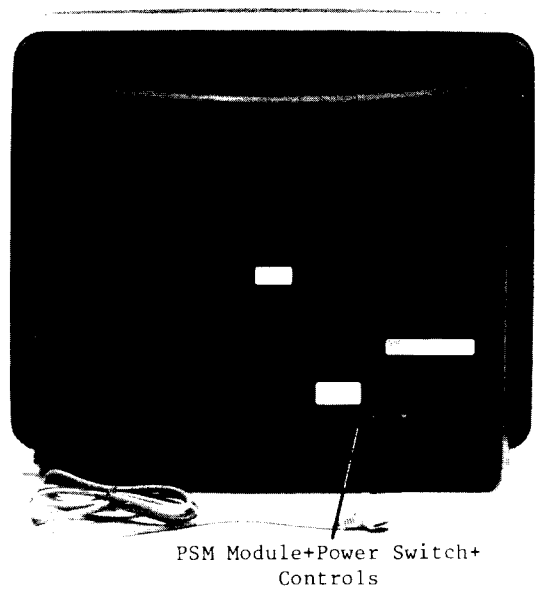
DECODER

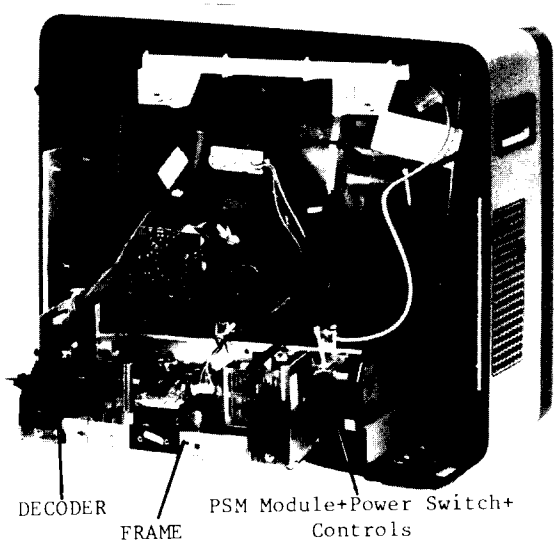
FRAME

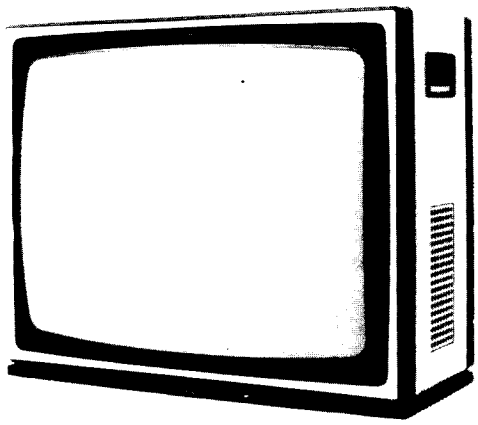
DCD 2640 (WITH PRIORITY SWITCHING MODULE)

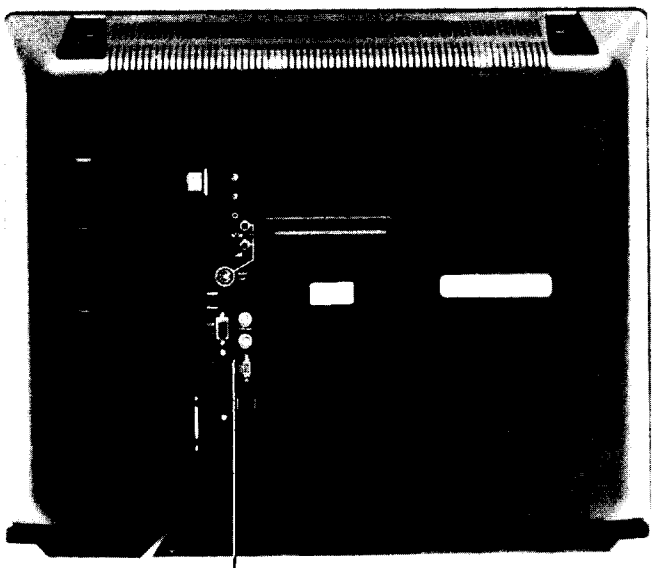




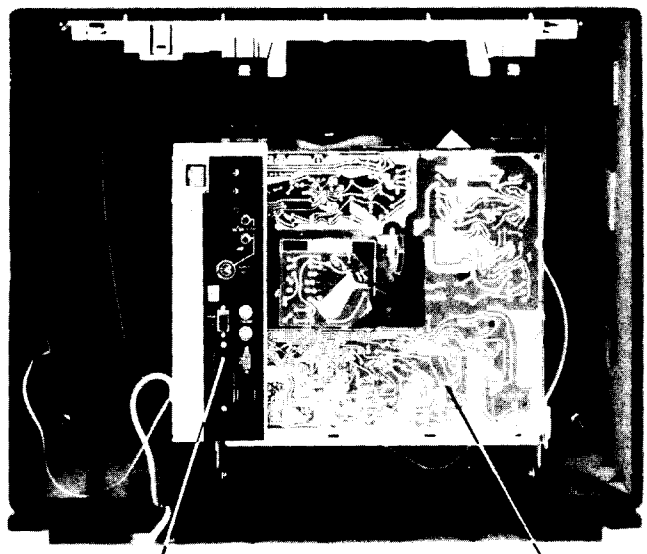






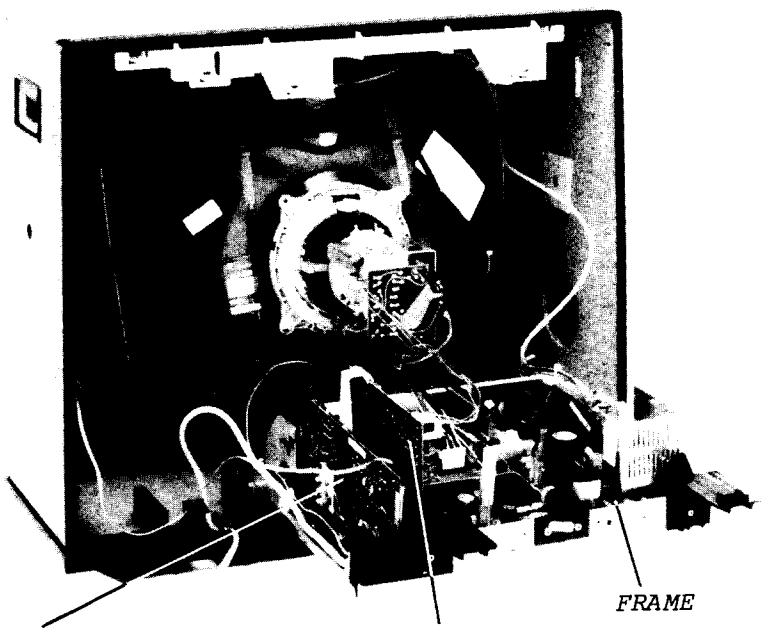


INPUT MODULE + POWER SWITCH + CONTROLS



INPUT MODULE + POWER SWITCH + CONTROLS

FRAME

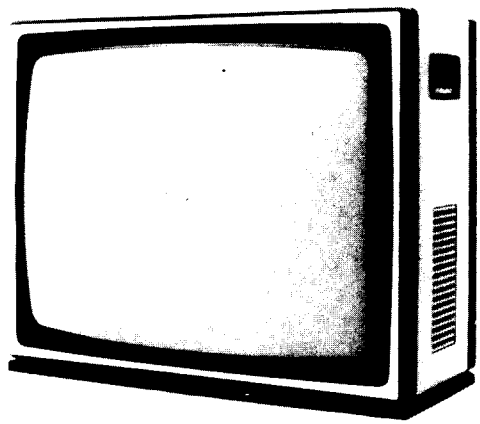


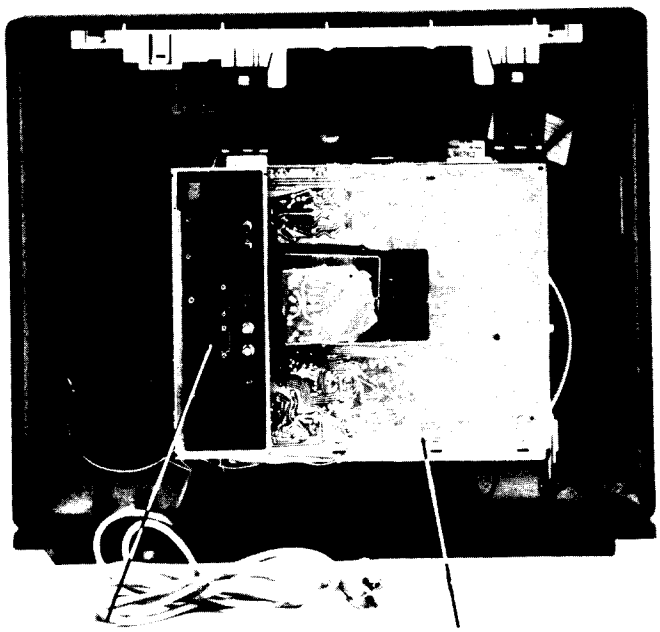
INPUT MODULE + POWER SWITCH + CONTROLS

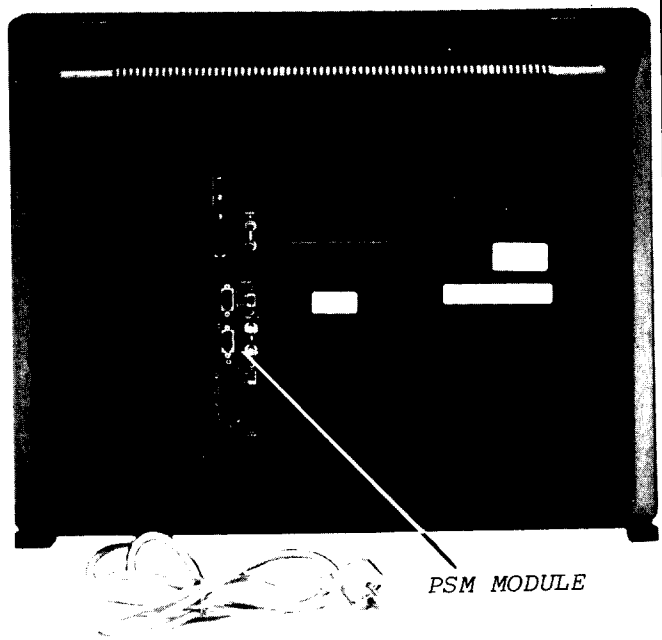
DECODER

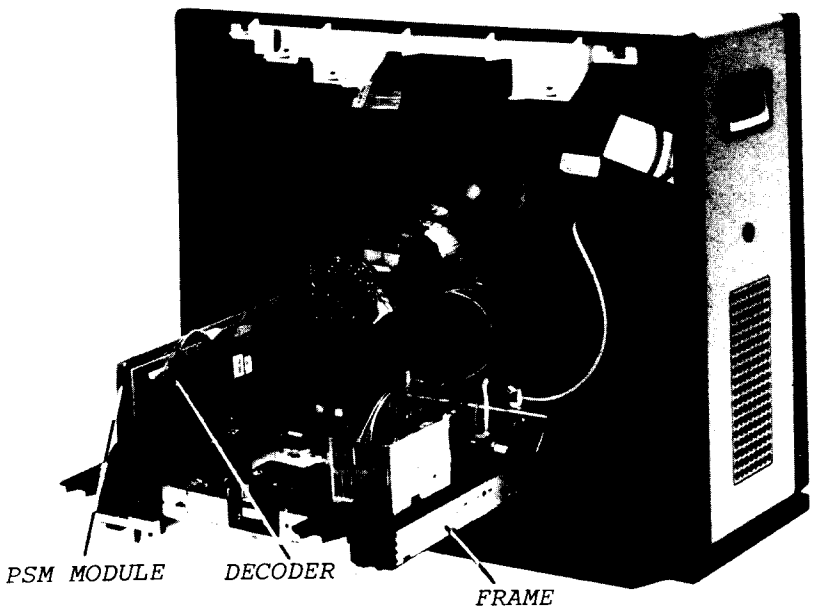
FRAME

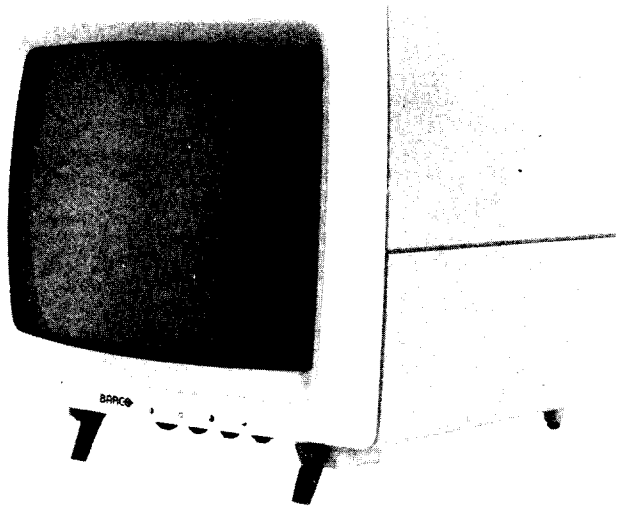
DCD 2740 (WITH PRIORITY SWITCHING MODULE)

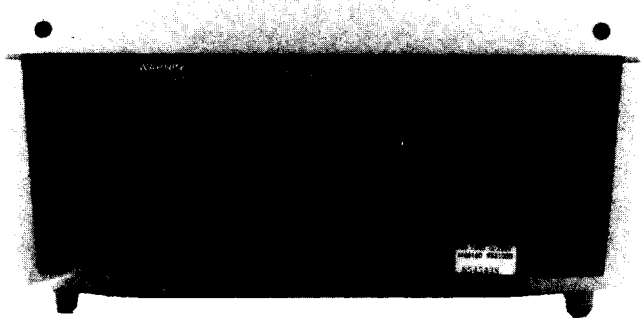


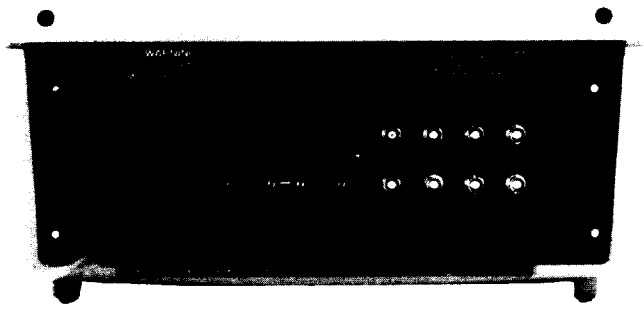












CEILING MOUNTING YOKE FOR MONITORS

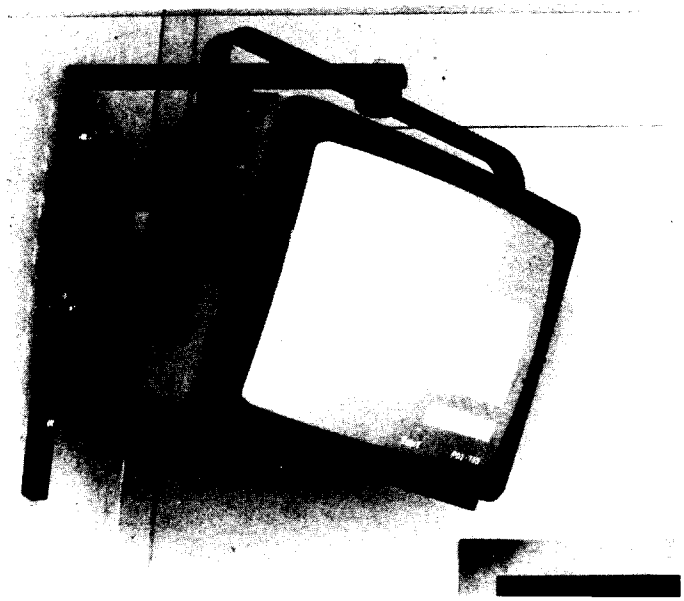
==========

= CAUTION =

=

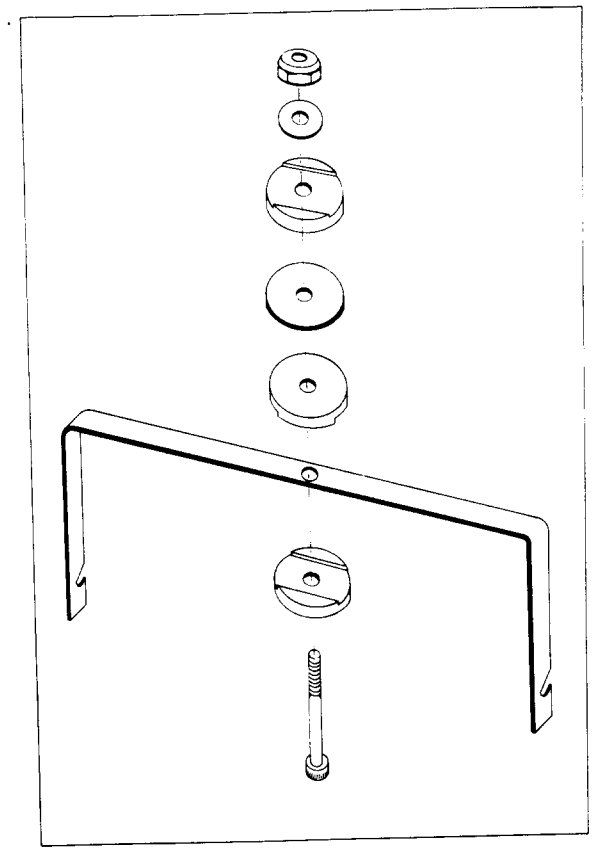
= THIS YOKE IS DESIGNED FOR USE ONLY WITH THE BARCO =
= MONITORS MODEL DCD 2240/2640/2740. USE WITH OTHER =
= APPLIANCES MAY RESULT IN INSTABILITY CAUSING POS- =
= SIBLE INJURY. =

==========

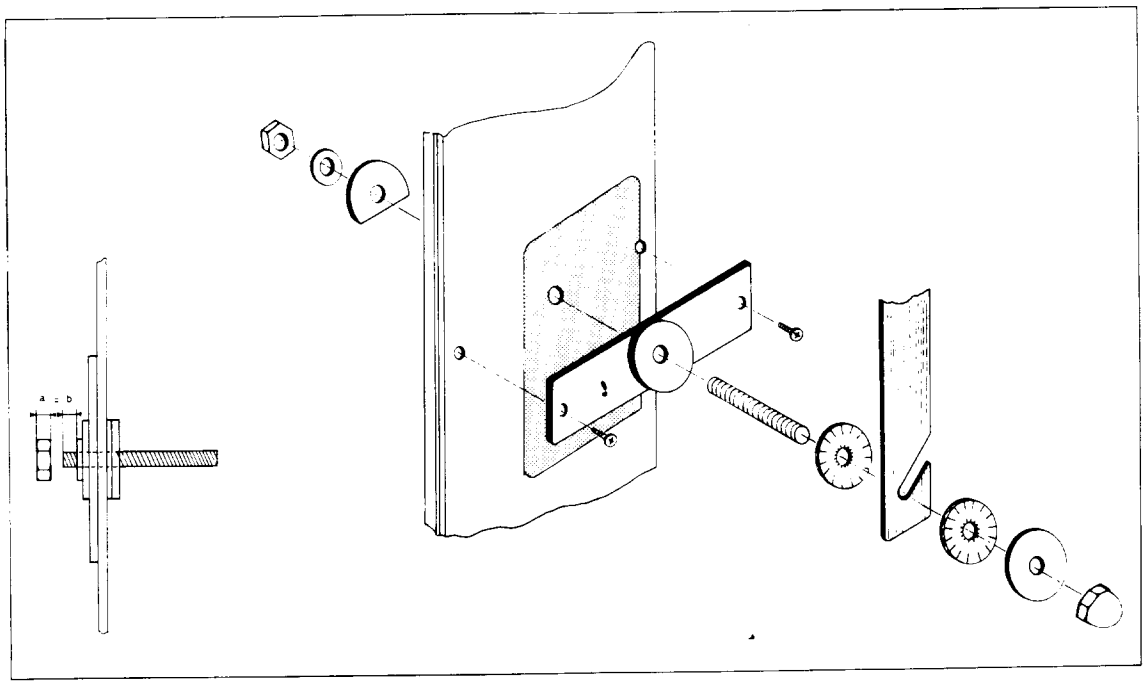


CEILING MOUNTING YOKE FOR MONITORS

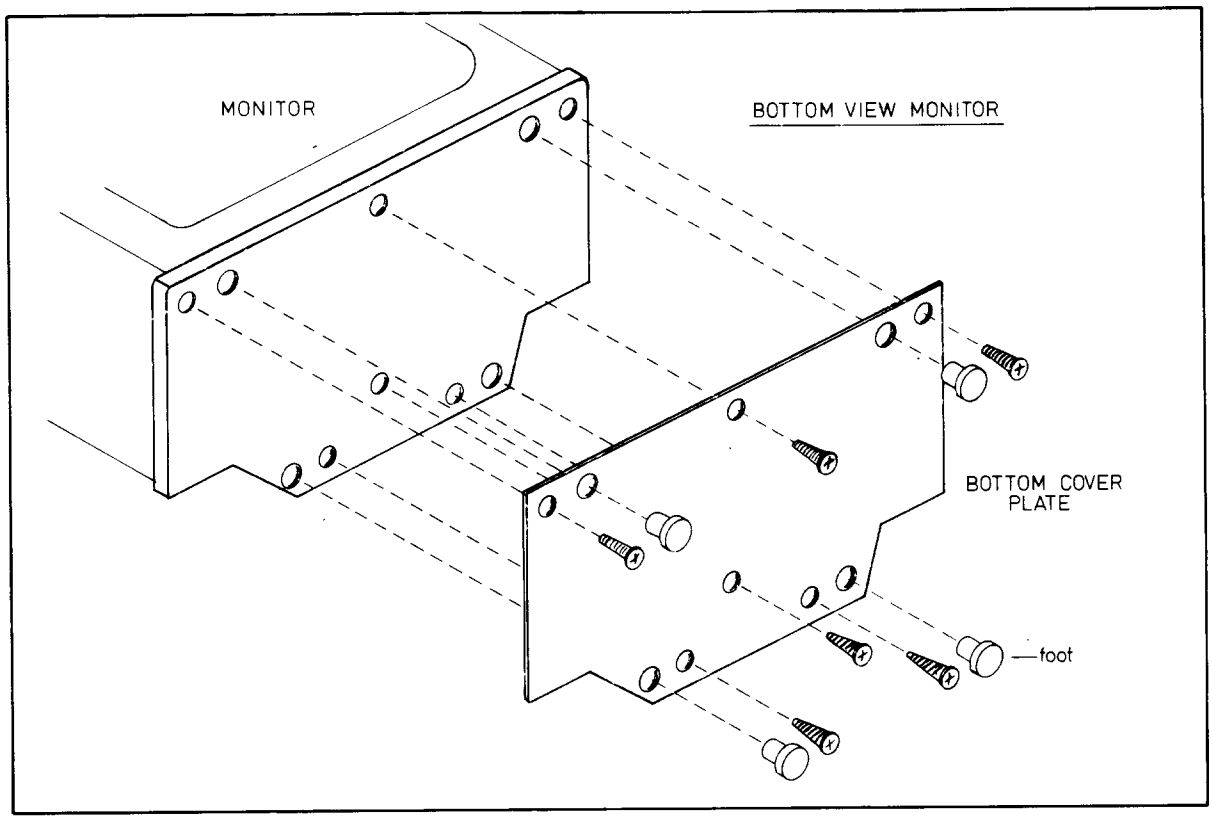
MOUNTING YOKE
(DCD2240/DCD2640/DCD2740)



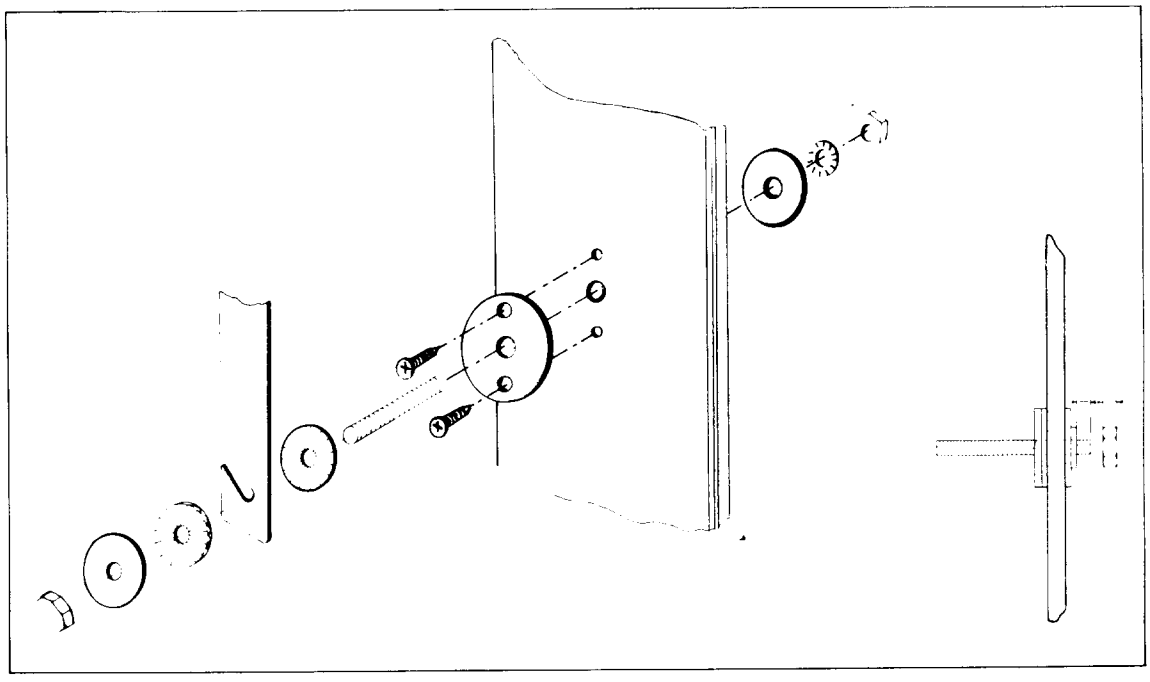
MOUNTING STUD (SIDE VIEW) DCD2640



MOUNTING BOTTOM PLATE
(DCD2240/DCD2740)



MOUNTING STUD
(DCD2240/DCD2740)



PARTS LISTING - KIT CEILING SUSPENSION 2240 98 25690
(D870324-1)

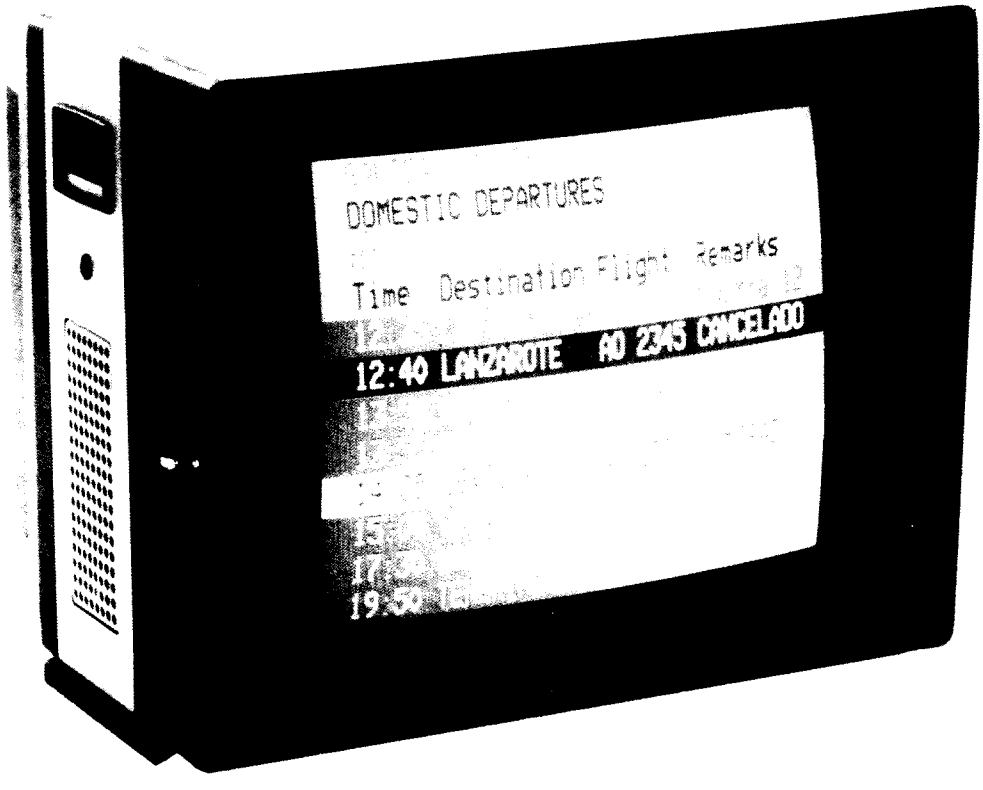
ITEM NO.	SIT.	DESCRIPTION
36 13535		SCREW 4 X16 CC+
36 15125		SCREW DIN7981 4,2X16 PP+
36 24495		SCREW DIN912 M12 X70 MPH
36 6107		NUT DIN934 M 8 HEXAGONAL
36 62345		NUT DIN1587 M 8 CAP
36 6244		NUT DIN985 M12 LOCK
36 7384		WASHER DIN125 PB13
36 7512		WASHER DIN6798 LA8,4
36 7515		WASHER LDD8,2
36 9510		STAPLE L18B35
59 3249		BOX409 665X 370X 50
71 4278		FIX. SUSPENSION SYSTEM
71 4279		FIX. SUSPENSION SYSTEM
71 4280		FIX. SUSPENSION SYSTEM
71 4305		WASHER SUSPENSION SYSTEM
71 4309		PINION
71 4340		ROD
72 1280		FOOT FULL SCREEN
76 0909		SET KIT SUSPENSION SYSTEM DCD40
80 0239		COVERPLATE BASE 2240
80 0241		SUSPENSION SYSEM 2240
80 0242		WASHER D50 M8
80 0755		PACKING PSF SUSP. SYST. DCD2240
80 0756		PACKING PSF SUSP. SYST. DCD2240
80 0826		LABEL PART-SER NR (PRINT CPU)

PARTS LISTING - KIT CEILING MOUNT 2640 98 22010
(D870324-1)

ITEM NO.	SIT.	DESCRIPTION
36 13215		SCREW 3 X10 CC+
36 24495		SCREW DIN912 M12 X70 MPH
36 6107		NUT DIN934 M 8 HEXAGONAL
36 62345		NUT DIN1587 M 8 CAP
36 6244		NUT DIN985 M12 LOCK
36 7384		WASHER DIN125 PB13
36 7512		WASHER DIN6798 LA8,4
36 7515		WASHER LDD8,2
36 9510		STAPLE L18B35
59 3249		BOX409 665X 370X 50
59 7554		INFO T SUSP. SYSTEM CM 66
71 4277		SUSPENSION SUPPORT
71 4278		FIX. SUSPENSION SYSTEM
71 4279		FIX. SUSPENSION SYSTEM
71 4280		FIX. SUSPENSION SYSTEM
71 4305		WASHER SUSPENSION SYSTEM
71 4309		PINION
71 4330		PLATE CPLSUSP. SYSTEMFSCR
71 4339		PINION
71 4340		ROD
71 4421		BOXFIT RIBBED CM66
76 0904		SET KIT SUSP. SYSTEM CM66
80 0826		LABEL PART-SER NR (PRINT CPU)

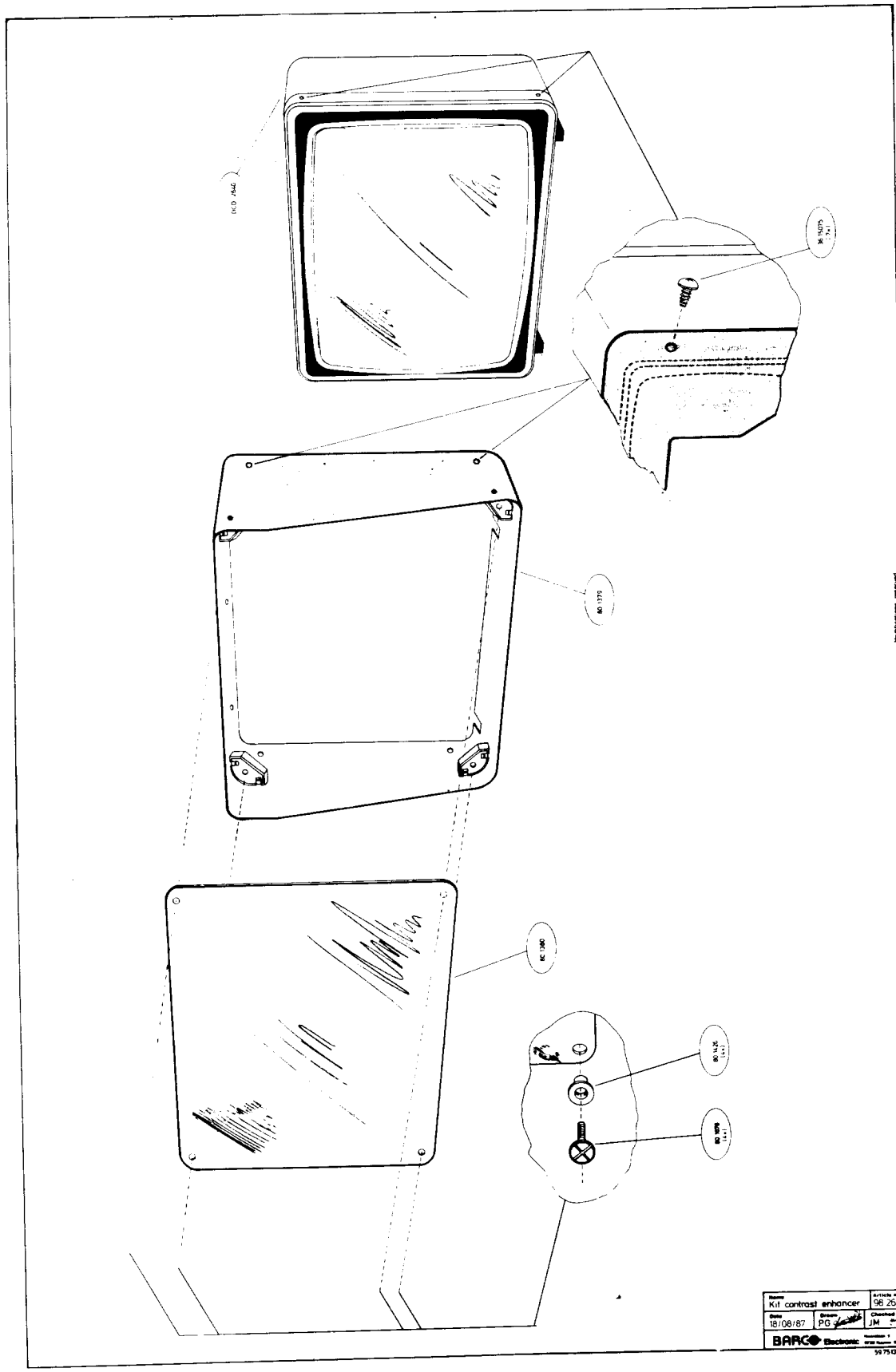
PARTS LISTING - KIT CEILING SUSPENSION 2740 98 25450
(D870324-1)

ITEM NO.	SIT.	DESCRIPTION
36 13535		SCREW 4 X16 CC+
36 15125		SCREW DIN7981 4,2X16 PP+
36 24495		SCREW DIN912 M12 X70 MPH
36 6107		NUT DIN934 M 8 HEXAGONAL
36 62345		NUT DIN1587 M 8 CAP
36 6244		NUT DIN985 M12 LOCK
36 7384		WASHER DIN125 PB13
36 7512		WASHER DIN6798 LA8,4
36 7515		WASHER LDD8,2
36 9510		STAPLE L18B35
59 3249		BOX409 665X 370X 50
71 4278		FIX. SUSPENSION SYSTEM FSCR
71 4279		FIX. SUSPENSION SYSTEM FSCR
71 4280		FIX. SUSPENSION SYSTEM FSCR
71 4305		WASHER SUSP. SYSTEM FSCR
71 4309		PINION
71 4340		ROD
71 4421		BOXFIT RIBBED CM66
72 1280		FOOT FULL SCREEN
76 0909		SET KIT SUSP. SYSTEM DCD40
80 0238		COVERPLATE BASE CS67
80 0240		SUSP. SYSTEM CS67 40 02
80 0242		WASHER D50 M8
80 0826		LABEL PART-SER NR (PRINT CPU)


DOMESTIC DEPARTURES
Time Destination Flight Remarks
12:40 LANZAROTE AD 2345 CANCELADO

CONTRAST ENHANCER

DCD 2240	98 26350
DCD 2740	98 26370
DCD 2640	98 26360

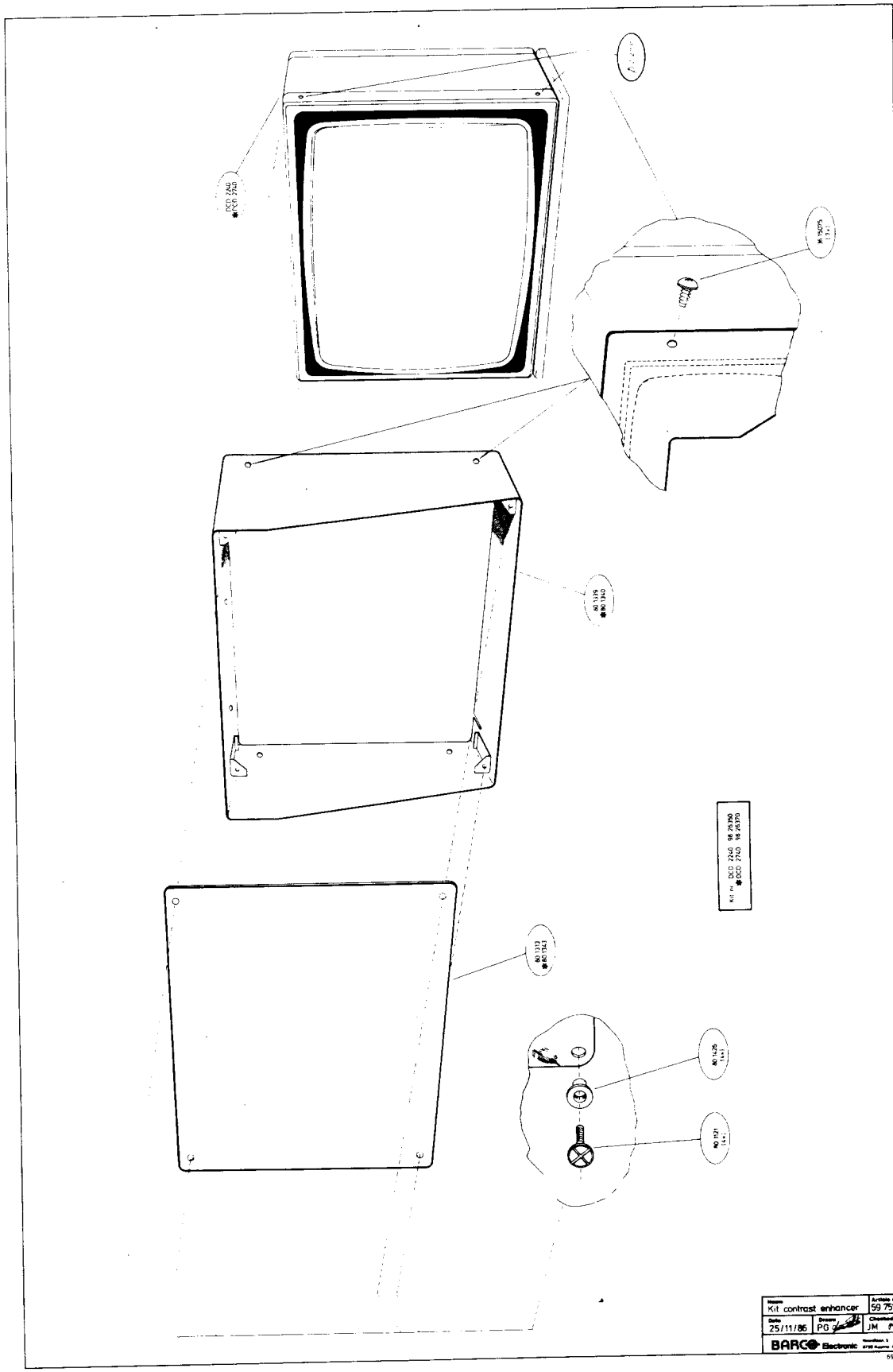


MOUNTING DIADRAM CONTRAST ENHANCER

DATE:02/02/88

CONTRAST ENHANCER

DCD 2240	98 26350
DCD 2740	98 26370
DCD 2640	98 26360



MOUNTING DIADRAM CONTRAST ENHANCER

DATE:02/02/88

PARTS LISTING - KIT CONTRAST ENHANCER 2240 98 26350
(D870324-1)

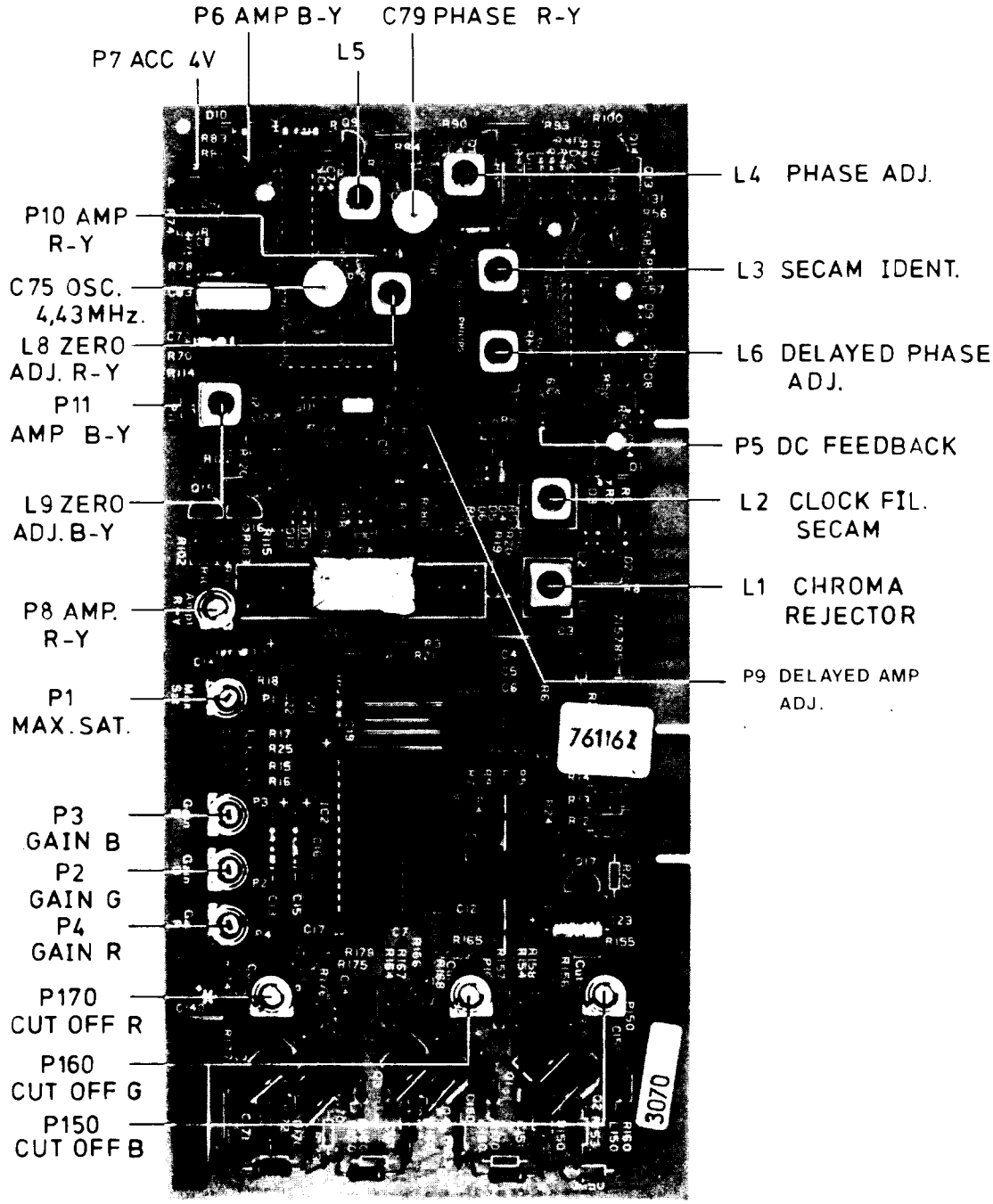
ITEM NO.	SIT.	DESCRIPTION	ITEM NO.	SIT.	DESCRIPTION
36 15075		SCREW DIN7981 3,2X 9,5 PP+	73 2022		PACKING WOOD DCD2240
59 3173		BOX PSF 587X480X15	80 1121		SCREW M3 L9 + FRF GLAS FST
59 3417		BOX 0201 589X 482X 205 GOGOG	80 1339		HOUSING FOR GLASS DCD2240
59 3432		BOX PACKING PEF L SMALL	80 1343		GLASS CONTRAST ENHANCER 3MM 22
59 3433		BOX PACKING PEF CORNER SMALL	80 1426		SPACER SCREW DCD2740
59 75132		INFO KIT CONTRAST ENHANCER 40			

PARTS LISTING - KIT CONTRAST ENHANCER 2640 98 26360
(D870922-1)

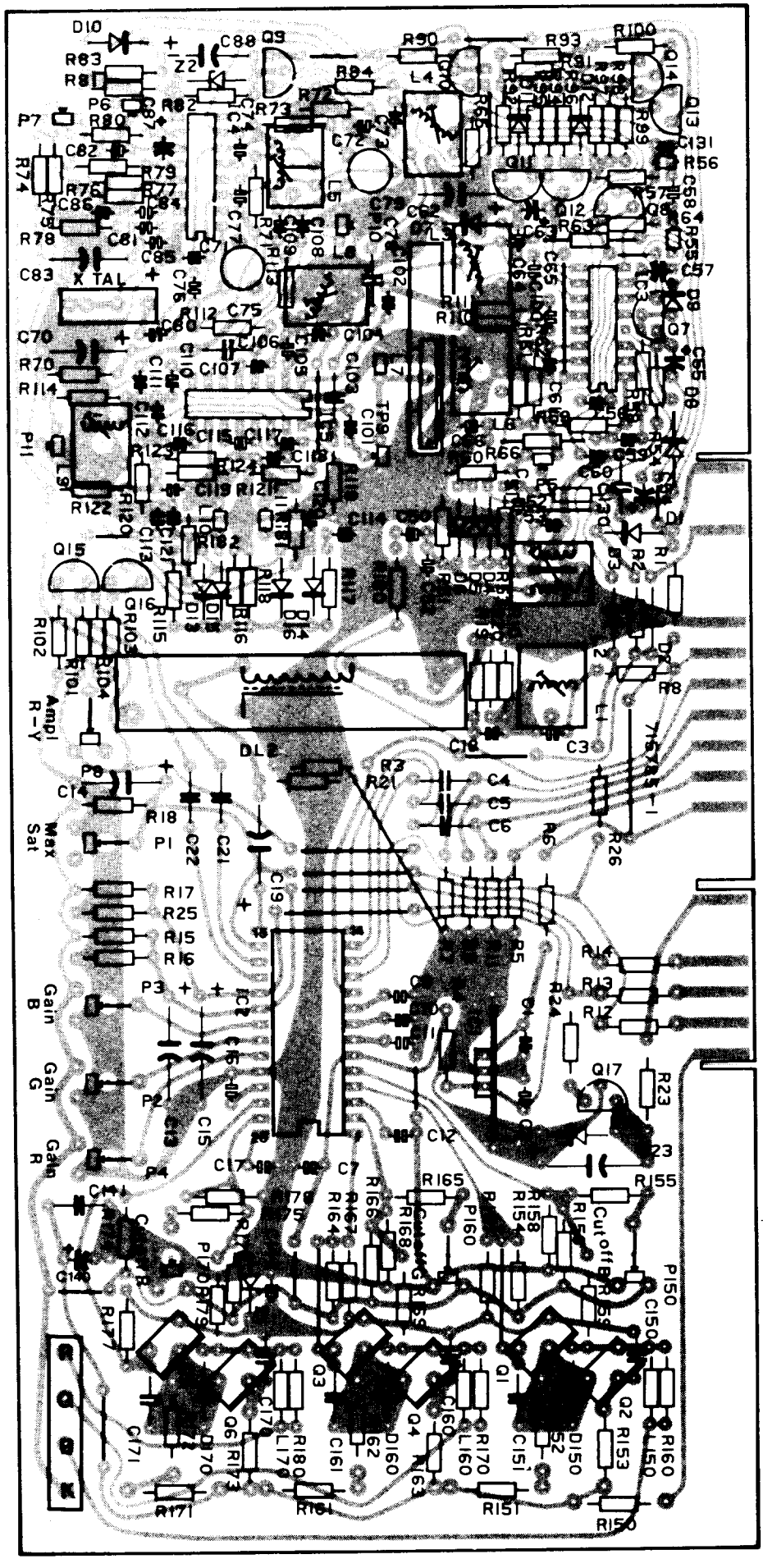
ITEM NO.	SIT.	DESCRIPTION	ITEM NO.	SIT.	DESCRIPTION
36 15075		SCREW DIN7981 3,2X 9,5 PP+	72 1932		FIX BRACKET FOR GLASS DCD2640
36 21225		SCREW DIN7985 M 3 X 6 MP+	73 2023		BOX FIT DCD2740 WOOD
59 3174		BOX FIT PSF 671X542X 15	80 1379		CABINET DCD2640 GLASS SUNBLIND
59 3416		BOX 0201 673X544X210 GOGOG	80 1380		GLASS CONTR ENHANCER 3MM 26
59 3432		BOX FIT L PUR L150 SMALL	80 1426		SPACER SCR L D M
59 3433		BOX FIT CORNER PUR SMALL	80 1677		WASHER DIA 5 X15 T , FELT
59 75132		INFO KIT CONTRAST ENHANCER 40	80 1678		SCREW M3 L14 - FRF GLASS
71 4937		NUT M 3 MS58 BV			

PARTS LISTING - KIT CONTRAST ENHANCER 2740 98 26370
(D870324-1)

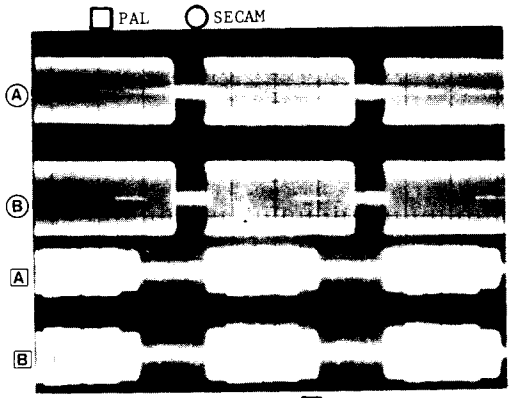
ITEM NO.	SIT.	DESCRIPTION	ITEM NO.	SIT.	DESCRIPTION
36 15075		SCREW DIN7981 3,2X 9,5 PP+	73 2023		PACKING WOOD DCD2740
59 3174		BOX PSF 671X542X15	80 1121		SCREW M3 L9 + FRF GLAS FST
59 3416		BOX 0201 673X 544X 205 GOGOG	80 1313		GLASS CONTRAST ENHANCER 3MM 27
59 3432		BOX PACKING PEF L SMALL	80 1340		HOUSING FOR GLASS DCD2740
59 3433		BOX PACKING PEF CORNER SMALL	80 1426		SPACER SCREW DCD2740
59 75132		INFO KIT CONTRAST ENHANCER 40			



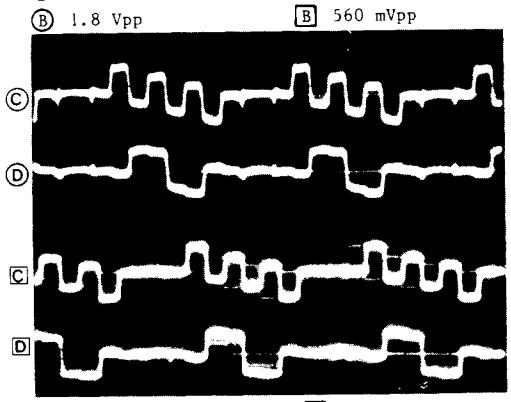
PAL / SECAM DECODER


Ampl R-Y
Max Sat
Gain B
Gain G
Gain R
Cutoff R
Cutoff G
Cutoff B
XTAL
DL2
DL1

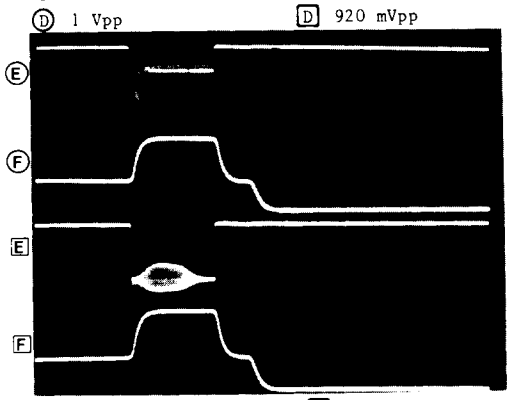
PAL SECAM



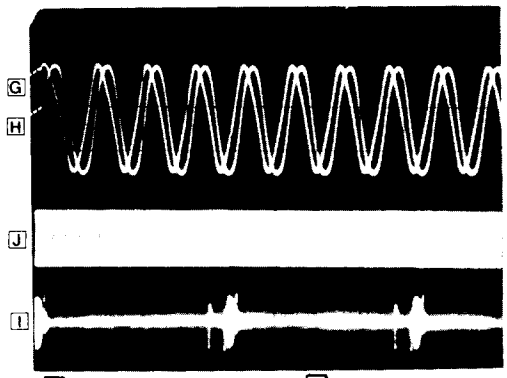
Ⓐ 1.8 Vpp
Ⓑ 1.8 Vpp
[A] 560 mVpp
[B] 560 mVpp



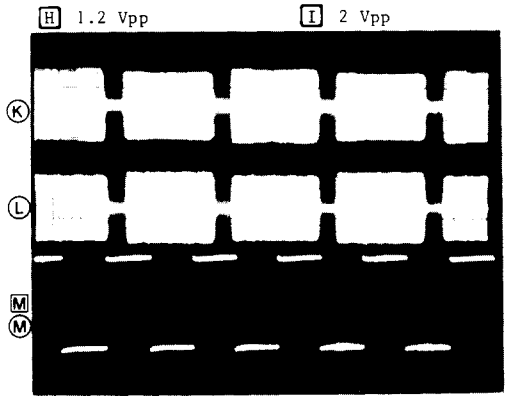
Ⓒ 1.2 Vpp
Ⓓ 1 Vpp
[C] 1.2 Vpp
[D] 920 mVpp



Ⓔ 6 Vpp
Ⓕ 8.3 Vpp
[E] 4 Vpp
[F] 8.8 Vpp



[G] 1.2 Vpp
[H] 1.2 Vpp
[J] 1.6 Vpp
[I] 2 Vpp



Ⓚ 1.1 Vpp
Ⓛ 1.1 Vpp
[M] 2.6 Vpp
Ⓜ 2.6 Vpp

IC 1 - LM340 T12

V in 14.8 V out 12

IC 2 - TDA 3500

Pin		Pin	
1	8	15	2.6
2	5.1	16	2.6
3	7	17	3.95
4	7.98	18	3.95
5	5.1	19	2.6
6	11	20	2.4
7	5.9	21	6.8
8	5.7	22	7.2
9	5.9	23	8.1
10	1.4	24	0
11	0	25	7.2
12	3.1	26	7.96
13	2.96	27	5.1
14	3	28	7

IC 3 - TCA 640

Pin			Pin		
1	8.6	*(8.6)*	9	6.1	*(5.9)*
2	0	*(0)*	10	6.1	*(5.4)*
3	2.7	*(2.7)*	11	0	*(0)*
4	11.1	*(5)*	12	2.8	*(2.8)*
5	2.7	*(2.7)*	13	11.3	*(11.3)*
6	1.2	*(1.2)*	14	11.5	*(11.6)*
7	-0.3	*(-0.3)*	15	8.6	*(8.6)*
8	2.3	*(2.3)*	16	0.9	*(0)*

IC 4 - TBA 540

Pin			Pin		
1	7.7	*(-0.08)*	9	1.4	*(0)*
2	9.3	*(0.1)*	10	8.7	*(-0.08)*
3	11.2	*(-0.08)*	11	3.5	*(0)*
4	3.1	*(-0.05)*	12	8.5	*(-0.08)*
5	0.4	*(-0.2)*	13	6.4	*(-0.05)*
6	3.1	*(-0.03)*	14	6.4	*(-0.05)*
7	2.3	*(2.4)*	15	3.9	*(0)*
8	5.7	*(-0.7)*	16	0	*(0)*

IC 5 - TCA 650

Pin			Pin		
1	3.4	*(3.4)*	9	6.2	*(6.1)*
2	0	*(0)*	10	9.7	*(9.3)*
3	3.4	*(3.4)*	11	7.2	*(7.2)*
4	3.3	*(-0.06)*	12	10.5	*(9.9)*
5	3	*(4.1)*	13	9.8	*(9.9)*
6	4.1	*(3)*	14	11.6	*(11.6)*
7	4.1	*(3)*	15	9.8	*(9.9)*
8	3	*(4)*	16	-0.3	*(-0.3)*

	c	b	e
Q1	131.8	8	7.4
Q2	194.9	131.8	131.9
Q3	128.2	8	7.4
Q4	194.9	128.2	128.4
Q5	129.2	8	7.4
Q6	195	129.2	129.4
Q7	11.1 *(4.9)*	11.04 *(11.3)*	11.6 *(11.6)*
Q8	11.3 *(11.3)*	10.95 *(10.95)*	11.6 *(11.6)*
Q9	11.9 *(11.9)*	1.38 *(0)*	0.8 *(0)*
Q10	11.9 *(11.9)*	11.1 *(11.9)*	11.6 *(-0.09)*
Q11	1.5 *(3.2)*	6.1 *(5.4)*	6.7 *(5.97)*
Q12	1.3 *(0)*	6.1 *(5.93)*	6.7 *(6.12)*
Q13	11.9 *(11.9)*	1.1 *(2.72)*	1.2 *(2.1)*
Q14	1.3 *(11.9)*	1.8 *(1.8)*	1.2 *(2.1)*
Q15	2.4 *(2.9)*	9.7 *(9.3)*	10.3 *(9.95)*
Q16	1.45 *(2.54)*	10.5 *(9.87)*	11.1 *(10.5)*
Q17	2.7	0	-0.2

--.- : PAL MODE

(--.-) : SECAM MODE

I. REGELING VAN DE LUMINANTIETRAP

Kleursperfilter (C3-L1)

- ontvang een EBU-kleurenbalkentestbeeld van een PAL-zender of van een PAL-generator.
- verbindt de oscilloscoop met het knooppunt R21-C19.
- regel de spoel L1 voor een minimum aan kleurinformatie in het video signaal.

II. REGELING VAN HET PAL-GEDEELTE

Ontvang een EBU-kleursignaal van een PAL-zender of van een PAL-generator.

a) Clampingniveau P5

- verbindt de oscilloscoop aan pin 13 (R65) TCA 640.
- sluit de basis-emitter junctie van de transistor Q8 kort.
- regel het burstgateniveau d.m.v. P5 "DC Feedback" op het niveau bereikt tijdens de heenslag.

b) Regeling van de referentie-oscillator C75

- sluit de oscilloscoop aan op de emitter van Q15.
- sluit R72 kort naar massa (gebruik hiervoor een korte draad).
- regel C75 voor nulzweving.

c) Regeling van het AGC-kleurniveau P7

- verbindt een voltmeter aan de emitter van Q9.
- sluit R72 kort naar massa (korte draad).
- regel P7 voor + 4 V op de emitter van Q9.

d) Afregeling van de looptijddemodulator - 90° (R-Y) - Burst Phase

Selecteer het testbeeld voor deze regeling (foto 1).

1) Sluit de oscilloscoop aan op de collector van Q15

- regel L6 "Delayed phase adjust" en P9 "Delayed amplitude adjust" zoals op foto 2 is weergegeven.
- sluit de ingang of de uitgang van de vertragingslijn kort naar massa.
- regel de kern van L4 "Burst phase" zoals op foto 3.
- verwijder de kortsluiting.
- regel P6 voor een (B-Y) amplitude van 1,2 Vpp.

2) Sluit de oscilloscoop aan op de collector van Q16

- regel C79 "90° (R-Y)" zoals op foto 4 is weergegeven.
- regel P8 voor een (R-Y) amplitude van 0,92 Vpp.

I. REGLAGE DE L'ETAGE DE LUMINANCE

Filtre de blocage couleur (C3-L1)

- capter une mire de couleurs UER d'une station émetteur PAL ou d'un générateur de mire PAL.
- brancher l'oscilloscope au noeud R21-C19.
- régler le réjecteur de telle manière que les résidus de la sous-porteuse de chrominance n'altèrent le signal de luminance qu'au minimum.

II. REGLAGE DE LA PARTIE PAL

Capter une mire de couleurs UER d'une station émettrice PAL ou d'un générateur de mire PAL.

a) Niveau de "clamping" P5

- brancher l'oscilloscope à la broche 13 (R65) TCA 640.
- court-circuiter la jonction base-émetteur du transistor Q8.
- régler P5 "DC Feedback" de telle manière que le niveau du palier arrière garni de la salve soit à la même hauteur que celui qui correspond au balayage.

b) Fréquence de l'oscillateur de reconstitution de la sous-porteuse C75

- brancher l'oscilloscope à l'émetteur de Q15.
- court-circuiter la résistance R72 (fil court).
- régler C75 de manière à ce que l'oscillation libre de l'oscillateur vaille 4,43 MHz (synchronisation des couleurs).

c) Niveau de CAG chrominance P7

- voltmètre branché à l'émetteur de Q9.
- court-circuiter R72 (fil court).
- régler P7 de manière à mesurer + 4 V.

d) Temps de propagation - 90° (R-Y) - phase de salve moyenne

Faire passer la mire adéquate pour le réglage du temps de propagation (voir photo 1).

1) Brancher l'oscilloscope au collecteur de Q15

- régler L6 "Delayed phase adjust" et P9 "Delayed amplitude adjust" comme illustré sur la photo 2.
- court-circuiter l'entrée ou la sortie de ligne à retard à la masse.
- régler le noyau de la bobine L4 "Burst phase" comme illustré sur la photo 3.
- supprimer le court-circuit.
- régler P6 de manière à ce que l'amplitude du (B-Y) soit 1,2 Vcc.

2) Brancher l'oscilloscope au collecteur de Q16

- régler C79 "90° (R-Y) comme illustré sur la photo 4.
- régler P8 de manière à ce que l'amplitude du (R-Y) soit 0,92 Vcc.

III. REGELING VAN HET SECAMGEDEELTE

Ontvang een EBU-kleurentestbeeld van een Secam-zender of van een Secam-generator.

a) Regeling van het klokfilter L2

- verbindt de oscilloscoop aan pin 1 of 15 van IC 3.
- regel L2 voor een vlak amplitudeverloop van het signaal gedurende 1 lijn.

b) Secamidentificatie L3

- verbindt de voltmeter tussen de pinnen 9 en 10 van de IC 3.
- draai de kern van L3 in tot een maximumspanning bekomen wordt met de correcte kleurweergave.

c) Afregeling van de (B-Y) discriminator L9

- verbindt de oscilloscoop aan de emitter van Q15.
- regel L9 (4,25 MHz) zodat het niveau van het (B-Y)-signaal gedurende de ontvangst van de kleurloze beeldinformatie gelijk is aan het klemniveau gedurende de lijnonderdrukking.
- regel de (B-Y) amplitude met P11 tot een waarde van 1,2 Vpp.

d) Regeling van de (R-Y) discriminator L8

- verbindt de oscilloscoop aan de emitter van Q16.
- idem als c) maar de regeling gebeurt met L8 (4,406 MHz).
- regel de (R-Y) amplitude met P10 tot een waarde van 0,92 Vpp.

Voor de volgende afregelingen moet de straalstroombegrenzing uitgeschakeld worden door diode D17 kort te sluiten.

IV. MAX SATURATIE : POTENTIOMETER P1

- regel door middel van de afstandsbediening het kontrast op de helft.
- regel met de afstandsbediening de kleursaturatie voor + 3,33 V op klem 3 van de decoder.
- sluit een oscilloscoop aan op klem 7 (Blue) van de RGB uitgangsplug.
- regel de potentiometer P1 zodanig dat de bovenkant van de blauwsignalen op hetzelfde niveau liggen (zie foto).

III. REGLAGE DE LA PARTIE SECAM

Capter une mire couleurs UER d'une station émettrice Sécam ou d'un générateur de mire Sécam.

a) Filtre en cloche L2

- brancher l'oscilloscope à la broche 1 ou 15 du IC 3.
- régler L5 pour obtenir une amplitude la plus constante tout au long d'une ligne.

b) Identification Sécam L3

- brancher un voltmètre entre les broches 9 et 10 du IC 3.
- enfoncer le noyau de L3 jusqu'à l'obtention d'une maximum de tension aux couleurs correctes.

c) Réglage du discriminateur (B-Y) L9

- brancher l'oscilloscope à l'émetteur de Q15.
- régler L9 (4,25 MHz) de telle manière que le niveau du signal (B-Y) sans information de couleur soit au niveau de la suppression ligne.
- régler P11 de manière à ce que l'amplitude du (B-Y) soit 1,2 Vcc.

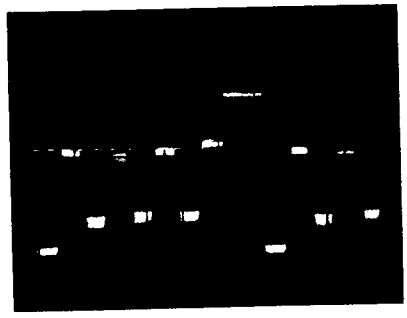
d) Réglage du discriminateur (R-Y) L8

- brancher l'oscilloscope à l'émetteur de Q16.
- idem comme c) mais régler le discriminateur à l'aide de L8 (4,406 MHz).
- régler l'amplitude du (R-Y) à 0,92 Vcc à l'aide de P10.

Pour les réglages suivants, mettre la limitation du courant faisceau hors circuit, en court-circuitant la diode D17.

IV. LA SATURATION MAXIMUM : POTENTIOMETRE P1

- régler le contraste à l'aide de la télécommande à demi-nouveau.
- régler la saturation des couleurs, à l'aide de la télécommande, afin d'obtenir + 3,33 V à la borne 3 du décodeur.
- brancher un oscilloscope à la cosse 7 (Bleu) du connecteur de sortie RVB.
- régler le potentiomètre P1 de sorte que les tops des signaux B se trouvent à la même hauteur (voir photo).



V. RGB-VERSTERKING

- plaats de cut-off potentiometers P1, P3 en P5 op . minimum (wijzerszin).
- regel door middel van de afstandsbediening de helderheid op de helft en het kontrast voor + 4 V op klem 5 van de decoder.
- regel de potentiometers P2 (voor rood), P4 (voor groen) en P6 (voor blauw), zodanig dat de amplitude van het signaal (tussen wit- en zwartniveau) op de uitgangsplug van de decoder respectievelijn 115 V, 110 V en 103 V bedraagt.

V. AMPLIFICATION RVB

- tourner les potentiomètres P1, P3 et P5 (cut-off) à leur position minimum (dans la direction des aiguilles d'une montre).
- régler, à l'aide de la télécommande, la luminosité à son niveau moyen et le contraste afin d'obtenir + 4 V à la borne 5 du décodeur.
- régler les potentiomètres P2 (du Rouge), P4 (du Vert) et P6 (du Bleu), afin d'obtenir un signal vidéo sur les sorties R, V et B (le fil R, V et B) de respectivement 115 V, 110 V et 103 V (entre le niveau du blanc et le niveau du noir).

VI. CUT-OFF INSTELLING

- draai de potentiometers P1, P3 en P5 volledig op minimum.
- regel door middel van de afstandsbediening de kleursaturatie op minimum en helderheid en kontrast op de helft.
- regel de potentiometer 'G2 level' op de beeldbuisprint zodanig dat de zwarte balk juist donker wordt.
- regel vervolgens met P1, P3 en P5 voor een neutraal grijs.
- let erop dat één van de potentiometers volledig op minimum blijft.

VI. LA BALANCE DU GRIS (CUT-OFF)

- tourner les potentiomètres P1, P3 et P5 (cut-off) à leur position minimum.
- régler, à l'aide de la télécommande, la saturation des couleurs au minimum et la luminosité et le contraste au niveau moyen.
- régler le potentiomètre 'G2 level' (qui se trouve sur le socket du tube cathodique), afin d'obtenir une reproduction noire de la barre noire.
- ensuite, régler les potentiomètres P1, P3 et P5, afin d'obtenir une reproduction neutre du gris.
- faites attention : un des trois potentiomètres doit rester à sa position minimum.

I. ADJUSTING THE LUMINANCE STAGE

Colour rejector (C3-L1)

- receive an EBU colour test pattern from a PAL generator or PAL transmitter.
- connect an oscilloscope to the junction R21/C19.
- adjust the coil L1 for a minimum of colour information in the video signal.

II. ADJUSTING THE PAL SECTION

Receive an EBU colour test pattern from a PAL generator or PAL transmitter.

a) Clamping level P5

- connect the oscilloscope to pin 13 (R65) of TCA 640.
- short-circuit the base-emitter junction of transistor Q8.
- adjust the burst gate level with P5 "DC Feedback" to the level obtained during the scan.

b) Adjusting the reference oscillator C75

- connect the oscilloscope to the emitter of Q15.
- short-circuit R72 to earth (use a short wire).
- adjust C75 for zero beat.

c) Adjusting the colour AGC level P7

- connect a voltmeter fo the emitter of Q9.
- short-circuit R72 to earth (use a short wire).
- adjust P7 for + 4 V on the emitter of Q9.

d) Adjusting the delay line matrix - 90° (R-Y) - Burst phase

Use the test picture shown in photo 1 for these adjustments.

1) Connect the oscilloscope to the collector of Q15

- adjust L6 (delayed phase adjust) and P9 (delayed amplitude adjust) as is shown in photo 2.
- short-circuit the input or output of the delay line to earth.
- adjust the core of L4 (Burst phase) as is shown in photo 3.
- remove the short-circuit.
- adjust P6 for a B-Y amplitude of 1.2 Vpp.

2) Connect the oscilloscope to the collector of Q16

- adjust C79 (90° R-Y) as is shown in photo 4.
- adjust P8 for an R-Y amplitude of 0.92 Vpp.

I. ABGLEICH DER LUMINANZTREPPE

Farbsperre (C3-L1)

- empfangen Sie ein EBU-Farbbalkentestbild von einer PAL-Senderstelle oder von einem PAL-Generator.
- Oszilloskop mit dem Knotenpunkt R21/C19 verbinden.
- L1 so einstellen, dass Sie einen minimalen Farbträgerinhalt im Video-Signal bekommen.

II. ABGLEICH DES PAL-TEILES

Empfangen Sie ein EBU-Farbbalkentestbild von einer PAL-Senderstelle oder von einem PAL-Generator.

a) Abgleich P5

- Oszilloskop an Klemme 13 (R65) TCA 640 anschliessen.
- Basisemitterschicht des Transistors Q8 kurzschliessen.
- P5 "DC Feedback" so einstellen, dass der Burstauftastpegel mit dem Niveau des Zeilenrückschlags übereinstimmt.

b) Einstellung des Referenzoszillators C75

- Oszilloskop mit dem Emitter von Q15 verbinden.
- R72 nach Masse kurzschliessen (gebrauchen Sie einen kurzen Draht).
- regulieren Sie C75 für Nullschwebung.

c) Einstellung AGC-Farbniveau P7

- Voltmeter an den Emitter von Q9 anschliessen.
- R72 nach Masse kurzschliessen (gebrauchen Sie einen kurzen Draht).
- mit P7 + 4 V am Emitter von Q9 einstellen.

d) Einstellung des Laufzeitdemodulators - 90° (R-Y) - Burstphase

Testbild auswählen (Foto 1).

1) Oszilloskop mit dem Collector von Q15 verbinden

- regulieren Sie L6 "Delayed phase adjust" und P9 "Delayed amplitude adjust" wie auf Foto 2.
- Eingang oder Ausgang der Verzögerungsleitung nach Masse kurzschliessen.
- L4 "Burst phase" so einstellen, wie auf Foto 3 ist wiedergegeben.
- Kurzschluss entfernen.
- mit P6 eine (B-Y)-Amplitude auf 1,2 Vss einstellen.

2) Oszilloskop mit dem Collector von Q16 verbinden

- regulieren Sie C79 "90° (R-Y)" wie auf Foto 4 ist wiedergegeben.
- mit P8 eine (R-Y)-Amplitude auf 0,92 Vss einstellen.

III. ADJUSTING THE SECAM SECTION

Receive an EBU colour test pattern from a SECAM transmitter or SECAM generator.

a) Adjusting the bell filter L2

- connect the oscilloscope to pin 1 or 15 of IC 3.
- adjust L2 for a flat amplitude of the signal during 1 line.

b) SECAM identification L3

- connect a voltmeter between pins 9 and 10 of IC 3.
- screw in the core of L3 to obtain the maximum voltage possible with correct colour reproduction.

c) Adjusting the B-Y discriminator L9

- connect an oscilloscope to the emitter of Q15.
- adjust L9 (4.25 MHz) so that the level of the B-Y signal without colour information is the same as the level during blanking.
- adjust the B-Y amplitude with P11 for a value of 1.2 Vpp.

d) Adjusting the R-Y discriminator L8

- connect an oscilloscope to the emitter of Q16.
- adjust L8 (4.406 MHz) so that the level of the R-Y signal without colour information is the same as the level during blanking.
- adjust the R-Y amplitude with P10 for a value of 0.92 Vpp.

For the following adjustments the beam current limitor must be switched off by short-circuiting diode D17.

IV. MAX. SATURATION : POTENTIOMETER P1

- adjust the contrast in its middle position with the remote control.
- adjust the colour saturation with the remote control for + 3.33 V on edge contact 3 of the decoder.
- connect an oscilloscope to edge contact 7 (Blue) of the RGB output connector.
- adjust potentiometer P1, so that the tops of the blue signals are at the same level (see picture).

III. EINSTELLUNG DES SECAM-TEILES

Empfangen Sie ein EBU-Farbbalkentestbild von einer SECAM-Senderstelle oder von einem SECAM-Generator.

a) Einstellung des Glockfilters L2

- Oszilloskop an Anschluss 1 oder 15 von IC 3 anschliessen.
- L2 für einen Amplitudenverlauf des Signales während einer Zeile einstellen.

b) Secamidentifikation L3

- Voltmeter zwischen den Klemmen 9 und 10 von IC 3 einschalten.
- Spule L3 eindrehen, bis eine Maximalspannung mit der richtigen farbwiedergabe bekommen wird.

c) Einstellung (B-Y)-Discriminator L9

- Oszilloskop mit dem Emitter von Q15 verbinden.
- L9 (4,25 MHz) so einstellen, dass das Niveau des (B-Y)-Signales während des Empfanges der farblosen Bildinformation mit dem Niveau während der Zeilenunterdrückung übereinstimmt.
- mit P11 die (B-Y)-Amplitude auf 1,2 Vss einstellen.

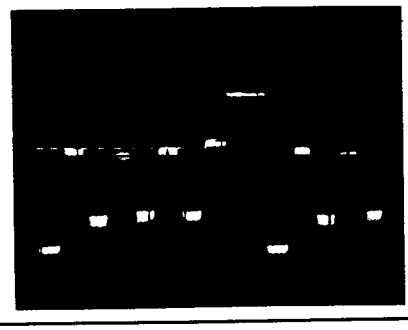
d) Einstellung (R-Y)-Discriminator L8

- Oszilloskop mit dem Emitter von Q16 verbinden.
- L8 (4,406 MHz) so einstellen, dass das Niveau des (R-Y)-Signales während des Empfanges der farblosen Bildinformation mit dem Niveau während der Zeilenunterdrückung übereinstimmt.
- mit P10 die (R-Y)-Amplitude auf 0,92 Vss einstellen.

Für die folgenden Reglungen ist es nötig die Strahlstrombegrenzung abzuschalten durch Diode D17 kurzzuschliessen.

IV. MAX. SÄTTIGUNG : POTENTIOMETER P1

- den Kontrast mit der Fernbedienung in die Mittelstellung einstellen.
- die Farbsättigung mit der Fernbedienung auf + 3,33 V an Anschluss 3 des Decoders einstellen.
- verbinden Sie einen Oszilloskop mit der Klemme 7 (Blau) der RGB-Ausgangsbuchse.
- Potentiometer P1 so einstellen, bis die obere Seite der Blausignalen sich auf dasselbe Niveau befinden (siehe Foto).



V. RGB AMPLIFICATION

- put the cut off potentiometers (P1-P3-P5) in their minimum position (clockwise).
- adjust the brightness in its middle position and the contrast for + 4 V at the edge contact 5 of the decoder with the remote control.
- adjust the potentiometers P2 (for Red), P4 (for Green) and P6 (for Blue), so that the amplitude of the signal (between the black and white level) on the output connector of the decoder is 115 V, 110 V and 103 V respectively.

V. RGB-VERSTÄRKUNG

- stellen Sie die Cut-Off-Potentiometer (P1-P3-P5) auf Minimum ein.
- mit der Fernbedienung die Helligkeit in die Mittelstellung und den Kontrast auf + 4 V an Anschluss 5 des Decoders einstellen.
- die Potentiometer P2 (für Rot), P4 (für Grün) und P6 (für Blau) so einstellen, dass die Amplitude des Signales (zwischen dem Schwarz- und Weissniveau) an den R, G und B-Ausgängen bzw. 115 V, 110 V und 103 V beträgt.

VI. CUT OFF ADJUSTMENT

- turn the potentiometer P1, P3 and P5 completely on minimum.
- adjust the colour saturation, with the remote control, in its minimum position and brightness and contrast in their mid-position.
- adjust the potentiometer 'G2 level' on the CRT socket so that the black bar just becomes dark.
- adjust with P1, P3 and P5 for a neutral grey.
- ensure that one of the potentiometers remains completely in minimum position.

VI. GRAUTON-EINSTELLUNG

- drehen Sie die Potentiometer P1, P3 und P5 völlig auf Minimum.
- mit der Fernbedienung die Farbsättigung auf Minimum und Helligkeit und Kontrast in die Mittelstellung einstellen.
- das Potentiometer 'G2 level' auf der BR-Sockelplatte so einstellen, dass der schwarzen Balken gerade schwarz erscheint.
- P1, P3 und P5 so einstellen, dass Sie ein neutrales Grau bekommen.
- achten Sie darauf, dass ein der Potentiometer ganz auf Minimum bleibt.

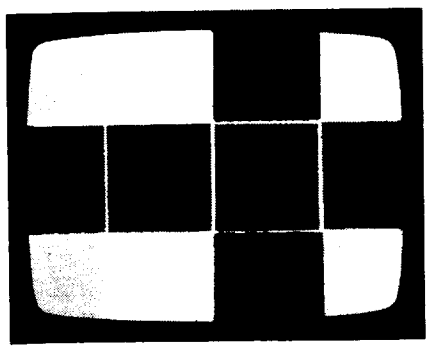


Photo 1 : *special test pattern*

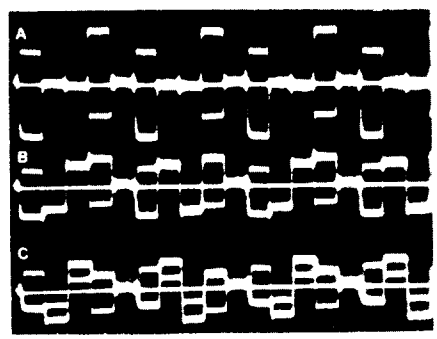


Photo 3 :

A. Correct burst phase

B. Input delayed line short-circuited

C. Incorrect burst phase
Adjust with L4

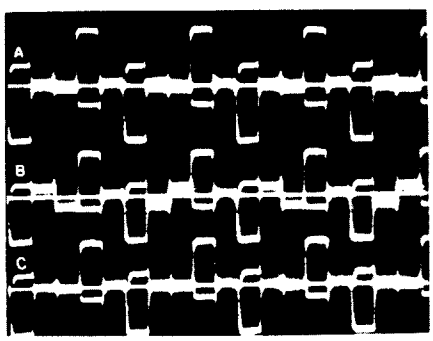


Photo 2 :

A. Incorrect delayed phase
Adjust with L6

B. Incorrect delayed amplitude
Adjust with P9

C. Correct delayed phase and amplitude

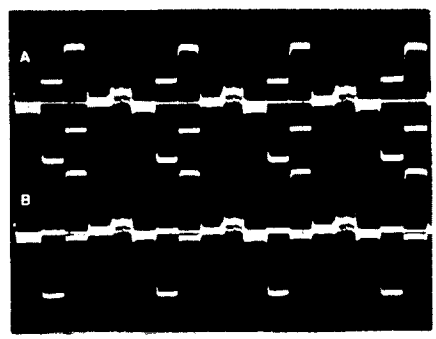


Photo 4 :

A. Incorrect - 90° (R-Y)
Adjust with C79

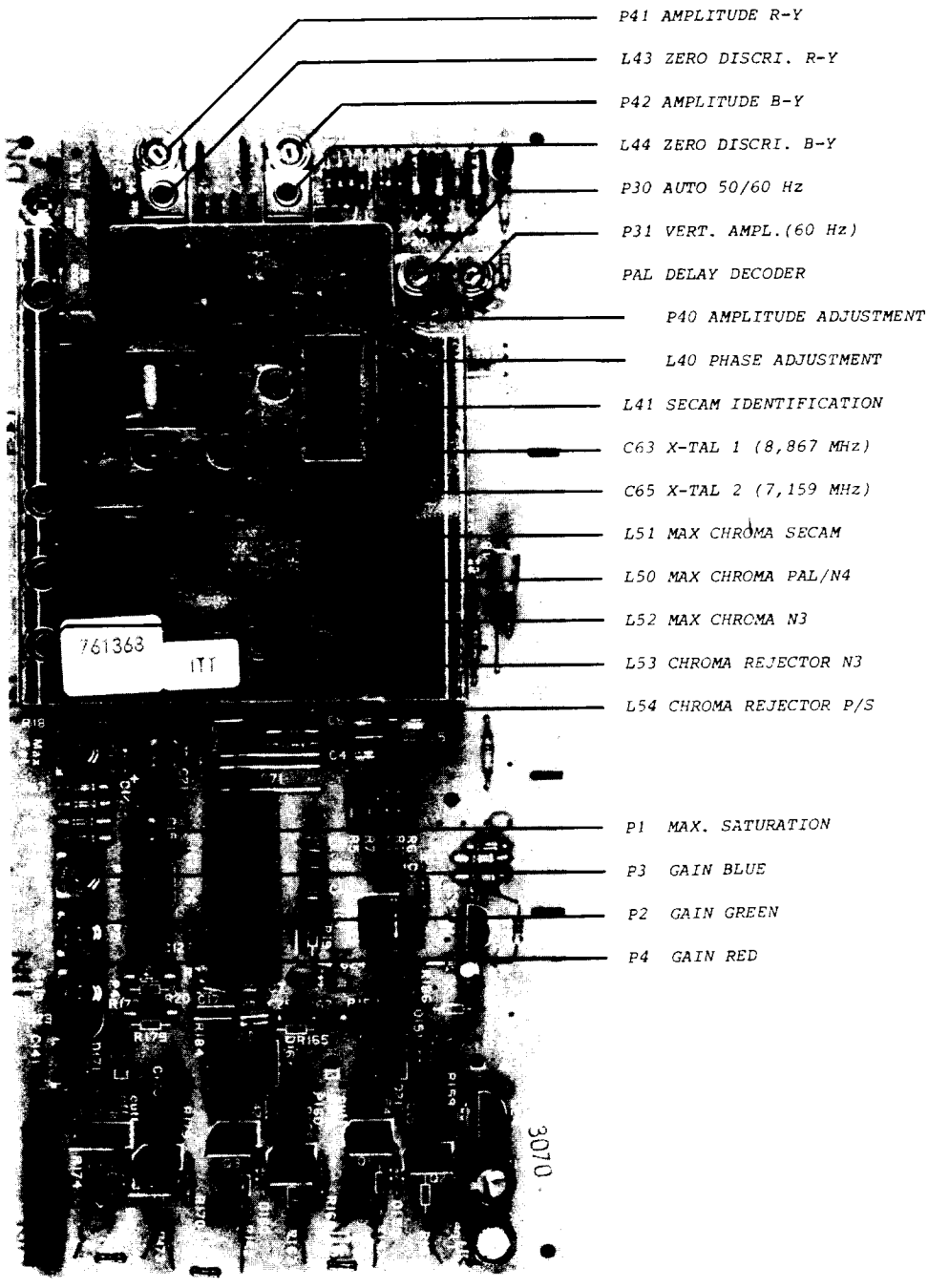
B. Correct - 90° (R-Y)

ITEM NO.	SIT.	DESCRIPTION
11 2774	C..1	CAPACITOR CE MI 100K U5 63
11 2774	C..2	CAPACITOR CE MI 100K U5 63
11 22415	C..3	CAPACITOR NPO MI 82P J5 63
11 4100	C..4	CAPACITOR POMEFF 100K K 100
11 4100	C..5	CAPACITOR POMEFF 100K K 100
11 4100	C..6	CAPACITOR POMEFF 100K K 100
11 2774	C..7	CAPACITOR CE MI 100K U5 63
11 2770	C..9	CAPACITOR CE MI 22K U5 63
11 2770	C.10	CAPACITOR CE MI 22K U5 63
11 2770	C.11	CAPACITOR CE MI 22K U5 63
11 2770	C.12	CAPACITOR CE MI 22K U5 63
11 11841	C.13	CAPACITOR ELAX 1M T 40
11 11841	C.14	CAPACITOR ELAX 1M T 40
11 11565	C.15	CAPACITOR ELAX 10M Z 25
11 2770	C.16	CAPACITOR CE MI 22K U5 63
11 2770	C.17	CAPACITOR CE MI 22K U5 63
11 2240	C.18	CAPACITOR NPO MI 68P J5 63
11 11565	C.19	CAPACITOR ELAX 10M Z 25
11 4124	C.21	CAPACITOR POMEFF 22K K 250
11 4124	C.22	CAPACITOR POMEFF 22K K 250
11 11305	C.23	CAPACITOR ELAX 47M Z 10
11 2236	C.50	CAPACITOR NPO MI 33P G5 63
11 2774	C.51	CAPACITOR CE MI 100K U5 63
11 59081	C.52	CAPACITOR PP RA 470P J5 100
11 2774	C.53	CAPACITOR CE MI 100K U5 63
11 1531	C.54	CAPACITOR ELPRMI 10M M5 35
11 1531	C.55	CAPACITOR ELPRMI 10M M5 35
11 2367	C.56	CAPACITOR N750MI 270P J5 63
11 1548	C.57	CAPACITOR ELPRMI 2M2 M5 50
11 2770	C.58	CAPACITOR CE MI 22K U5 63
11 2242	C.59	CAPACITOR NPO MI 100P J5 63
11 2774	C.60	CAPACITOR CE MI 100K U5 63
11 3841	C.61	CAPACITOR PETPFP 220K M 63
11 1184	C.62	CAPACITOR ELAX 4M7 Z 40
11 1550	C.63	CAPACITOR ELPRMI 4M7 M5 50
11 22415	C.64	CAPACITOR NPO MI 82P J5 63
11 59081	C.65	CAPACITOR PP RA 470P J5 100
11 2747	C.66	CAPACITOR CE MI 4K7 K5 63
11 11575	C.70	CAPACITOR ELAX 22M Z 25
11 2774	C.71	CAPACITOR CE MI 100K U5 63
11 2240	C.72	CAPACITOR NPO MI 68P J5 63
11 2240	C.73	CAPACITOR NPO MI 68P J5 63
11 2739	C.74	CAPACITOR CE MI 1K K5 63
11 7003	C.75	CAPACITOR TRIM 4,5-70P 160
11 2233	C.76	CAPACITOR NPO MI 18P G5 63
11 2774	C.77	CAPACITOR CE MI 100K U5 63
11 4100	C.78	CAPACITOR POMEFF 100K K 100
11 7003	C.79	CAPACITOR TRIM 4,5-70P 160
11 22415	C.80	CAPACITOR NPO MI 82P J5 63
11 2234	C.81	CAPACITOR NPO MI 22P G5 63
11 2774	C.82	CAPACITOR CE MI 100K U5 63
11 11305	C.83	CAPACITOR ELAX 47M Z 10
11 2774	C.84	CAPACITOR CE MI 100K U5 63
11 2774	C.85	CAPACITOR CE MI 100K U5 63
11 2774	C.86	CAPACITOR CE MI 100K U5 63
11 1548	C.87	CAPACITOR ELPRMI 2M2 M5 50
11 11575	C.88	CAPACITOR ELAX 22M Z 25
11 2747	C100	CAPACITOR CE MI 4K7 K5 63
11 2747	C101	CAPACITOR CE MI 4K7 K5 63
11 2747	C102	CAPACITOR CE MI 4K7 K5 63
11 4100	C103	CAPACITOR POMEFF 100K K 100
11 2235	C104	CAPACITOR NPO MI 27P G5 63
11 59562	C105	CAPACITOR PP RA 180P J5 630
11 4124	C106	CAPACITOR POMEFF 22K K 250
11 2364	C107	CAPACITOR N750MI 150P J5 63
11 2739	C108	CAPACITOR CE MI 1K K5 63
11 2739	C109	CAPACITOR CE MI 1K K5 63
11 2364	C110	CAPACITOR N750MI 150P J5 63
11 59562	C111	CAPACITOR PP RA 180P J5 630
11 2235	C112	CAPACITOR NPO MI 27P G5 63
11 59151	C113	CAPACITOR PP RA 910P J5 100
11 59151	C114	CAPACITOR PP RA 910P J5 100
11 2747	C115	CAPACITOR CE MI 4K7 K5 63
11 2747	C116	CAPACITOR CE MI 4K7 K5 63
11 3841	C117	CAPACITOR PETPFP 220K M 63
11 2240	C118	CAPACITOR NPO MI 68P J5 63
11 2240	C119	CAPACITOR NPO MI 68P J5 63
11 2238	C120	CAPACITOR NPO MI 47P G5 63
11 2238	C121	CAPACITOR NPO MI 47P G5 63
11 2238	C131	CAPACITOR NPO MI 47P G5 63
11 4100	C132	CAPACITOR POMEFF 100K K 100
11 1571	C140	CAPACITOR ELPR 2M2 M5 350
11 4132	C141	CAPACITOR POMEFF 100K K 250
11 2774	C142	CAPACITOR CE MI 100K U5 63
11 2831	C150	CAPACITOR CE DI 3K3 S 400
11 20711	C151	CAPACITOR N750PE 1P C 400
11 2831	C160	CAPACITOR CE DI 3K3 S 400
11 20711	C161	CAPACITOR N750PE 1P C 400
11 2831	C170	CAPACITOR CE DI 3K3 S 400
11 20711	C171	CAPACITOR N750PE 1P C 400
11 1478		CAPACITOR ELPR 220M Z5 25
13 1621	D..1	DIODE 1N4148 SWITCH
13 1621	D..2	DIODE 1N4148 SWITCH
13 1621	D..3	DIODE 1N4148 SWITCH
13 1636	D..4	DIODE BAT43 SD101 SCHOTTKY
13 1621	D..5	DIODE 1N4148 SWITCH
13 1621	D..6	DIODE 1N4148 SWITCH
13 1623	D..7	DIODE BA243 SWITCH
13 1621	D..8	DIODE 1N4148 SWITCH
13 1621	D..9	DIODE 1N4148 SWITCH
13 1621	D.10	DIODE 1N4148 SWITCH
13 1621	D.11	DIODE 1N4148 SWITCH
13 1621	D.12	DIODE 1N4148 SWITCH
13 1621	D.13	DIODE 1N4148 SWITCH
13 1621	D.14	DIODE 1N4148 SWITCH
13 1621	D.15	DIODE 1N4148 SWITCH
13 1621	D.16	DIODE 1N4148 SWITCH
13 1621	D.17	DIODE 1N4148 SWITCH
13 1628	D150	DIODE BAW62 SWITCH
13 1628	D160	DIODE BAW62 SWITCH
13 1828	D170	DIODE BB329B QUARTET VARICAP
30 6525	DL.1	DELAY LINE MS RGB 0,390USEC
30 6511	DL.2	DELAY LINE M P/S DL710,DL711
13 4002	IC.1	INTEGRATED CIRCUIT 7812
13 2734	IC.2	INTEGRATED CIRCUIT 3500 TDA
13 2150	IC.3	INTEGRATED CIRCUIT 640 TCA
13 2130	IC.4	INTEGRATED CIRCUIT 540 TBA
13 2151	IC.5	INTEGRATED CIRCUIT 650 TCA
77 4211	L..1	COIL N56 K5 D0,125 PHASE
77 4213	L..2	COIL PALIN N
77 3102	L..3	COIL L0112733
77 3104	L..4	COIL L0112735
77 3106	L..5	COIL L0112737
77 3299	L..6	SPON 56 K5 D0,10 PS32
30 6024	L..7	CHOKE RA NS 10 UH
77 3105	L..8	COIL L0112736
77 3105	L..9	COIL L0112736
30 6060	L.10	CHOKE RA NS 330 UH
30 6060	L.11	CHOKE RA NS 330 UH
77 3054	L150	SPON 32,5 K1,6D0,25
77 3054	L160	SPON 32,5 K1,6D0,25
77 3054	L170	SPON 32,5 K1,6D0,25
10 6109	P..1	TRIMPOT CAMH 47K M OW05
10 6107	P..2	TRIMPOT CAMH 10K M OW05
10 6107	P..3	TRIMPOT CAMH 10K M OW05

ITEM NO.	SIT.	DESCRIPTION
10 6107	P..4	TRIMPOT CAMH 10K M 0W05
10 6002	P..5	TRIMPOT CAMV 220E M 0W05
10 6006	P..6	TRIMPOT CAMV 4K7 M 0W05
10 6009	P..7	TRIMPOT CAMV 47K M 0W05
10 6102	P..8	TRIMPOT CAMH 220E M 0W05
10 6003	P..9	TRIMPOT CAMV 470E M 0W05
10 6005	P.10	TRIMPOT CAMV 2K2 M 0W05
10 6005	P.11	TRIMPOT CAMV 2K2 M 0W05
10 6107	P150	TRIMPOT CAMH 10K M 0W05
10 6107	P160	TRIMPOT CAMH 10K M 0W05
10 6107	P170	TRIMPOT CAMH 10K M 0W05
71 5785	PC..	PC 40 DEC PAL SEC RBG 761162
13 25146	Q..1	TRANSISTOR BF869
13 25146	Q..2	TRANSISTOR BF869
13 25146	Q..3	TRANSISTOR BF869
13 25146	Q..4	TRANSISTOR BF869
13 25146	Q..5	TRANSISTOR BF869
13 25146	Q..6	TRANSISTOR BF869
13 14181	Q..7	TRANSISTOR BC559B,BC309B
13 14181	Q..8	TRANSISTOR BC559B,BC309B
13 1411	Q..9	TRANSISTOR BC549C,BC239C
13 14181	Q.10	TRANSISTOR BC559B,BC309B
13 14181	Q.11	TRANSISTOR BC559B,BC309B
13 14181	Q.12	TRANSISTOR BC559B,BC309B
13 14295	Q.13	TRANSISTOR BC549B,
13 14295	Q.14	TRANSISTOR BC549B,
13 14181	Q.15	TRANSISTOR BC559B,BC309B
13 14181	Q.16	TRANSISTOR BC559B,BC309B
13 14295	Q.17	TRANSISTOR BC549B,
10 1141	R..1	RESISTOR CF 2K7 J 0W25
10 1148	R..2	RESISTOR CF 10K J 0W25
10 1144	R..3	RESISTOR CF 4K7 J 0W25
10 1104	R..4	RESISTOR CF 2E2 J 0W25
10 11231	R..5	RESISTOR CF 75E J 0W25
10 11008	R..6	RESISTOR CFF 1E J 0W25
10 11231	R..7	RESISTOR CF 75E J 0W25
10 1122	R..8	RESISTOR CF 68E J 0W25
10 11231	R..9	RESISTOR CF 75E J 0W25
10 1134	R.10	RESISTOR CF 680E J 0W25
10 11231	R.11	RESISTOR CF 75E J 0W25
10 1155	R.12	RESISTOR CF 39K J 0W25
10 1155	R.13	RESISTOR CF 39K J 0W25
10 1160	R.14	RESISTOR CF 100K J 0W25
10 1159	R.15	RESISTOR CF 82K J 0W25
10 1152	R.16	RESISTOR CF 22K J 0W25
10 1160	R.17	RESISTOR CF 100K J 0W25
10 1160	R.18	RESISTOR CF 100K J 0W25
10 1136	R.19	RESISTOR CF 1K J 0W25
10 1136	R.20	RESISTOR CF 1K J 0W25
10 1136	R.21	RESISTOR CF 1K J 0W25
10 1124	R.23	RESISTOR CF 100E J 0W25
10 1140	R.24	RESISTOR CF 2K2 J 0W25
10 1154	R.25	RESISTOR CF 33K J 0W25
10 1132	R.26	RESISTOR CF 470E J 0W25
10 1126	R.50	RESISTOR CF 150E J 0W25
10 1142	R.51	RESISTOR CF 3K3 J 0W25
10 1142	R.52	RESISTOR CF 3K3 J 0W25
10 1128	R.53	RESISTOR CF 220E J 0W25
10 1156	R.54	RESISTOR CF 47K J 0W25
10 1136	R.55	RESISTOR CF 1K J 0W25
10 1154	R.56	RESISTOR CF 33K J 0W25
10 1156	R.57	RESISTOR CF 47K J 0W25
10 1124	R.58	RESISTOR CF 100E J 0W25
10 1139	R.59	RESISTOR CF 1K8 J 0W25
10 1134	R.60	RESISTOR CF 680E J 0W25
10 1135	R.61	RESISTOR CF 820E J 0W25
10 1139	R.62	RESISTOR CF 1K8 J 0W25

ITEM NO.	SIT.	DESCRIPTION
10 1148	R.63	RESISTOR CF 10K J 0W25
10 1112	R.64	RESISTOR CF 10E J 0W25
10 1141	R.65	RESISTOR CF 2K7 J 0W25
10 1131	R.66	RESISTOR CF 390E J 0W25
10 1112	R.70	RESISTOR CF 10E J 0W25
10 1145	R.71	RESISTOR CF 5K6 J 0W25
10 1137	R.72	RESISTOR CF 1K2 J 0W25
10 1136	R.73	RESISTOR CF 1K J 0W25
10 1136	R.74	RESISTOR CF 1K J 0W25
10 1138	R.75	RESISTOR CF 1K5 J 0W25
10 11482	R.76	RESISTOR CF 10K G 0W20
10 11482	R.77	RESISTOR CF 10K G 0W20
10 1128	R.78	RESISTOR CF 220E J 0W25
10 1153	R.79	RESISTOR CF 27K J 0W25
10 1153	R.80	RESISTOR CF 27K J 0W25
10 1139	R.81	RESISTOR CF 1K8 J 0W25
10 1160	R.82	RESISTOR CF 100K J 0W25
10 1160	R.83	RESISTOR CF 100K J 0W25
10 1148	R.84	RESISTOR CF 10K J 0W25
10 1142	R.90	RESISTOR CF 3K3 J 0W25
10 1142	R.91	RESISTOR CF 3K3 J 0W25
10 1126	R.92	RESISTOR CF 150E J 0W25
10 1145	R.93	RESISTOR CF 5K6 J 0W25
10 1126	R.94	RESISTOR CF 150E J 0W25
10 1142	R.95	RESISTOR CF 3K3 J 0W25
10 1142	R.96	RESISTOR CF 3K3 J 0W25
10 1156	R.97	RESISTOR CF 47K J 0W25
10 1136	R.98	RESISTOR CF 1K J 0W25
10 1137	R.99	RESISTOR CF 1K2 J 0W25
10 1146	R100	RESISTOR CF 6K8 J 0W25
10 1128	R101	RESISTOR CF 220E J 0W25
10 1130	R102	RESISTOR CF 330E J 0W25
10 1124	R103	RESISTOR CF 100E J 0W25
10 1130	R104	RESISTOR CF 330E J 0W25
10 1135	R110	RESISTOR CF 820E J 0W25
10 1125	R111	RESISTOR CF 120E J 0W25
10 1141	R112	RESISTOR CF 2K7 J 0W25
10 1132	R113	RESISTOR CF 470E J 0W25
10 1132	R114	RESISTOR CF 470E J 0W25
10 1135	R115	RESISTOR CF 820E J 0W25
10 1153	R116	RESISTOR CF 27K J 0W25
10 1135	R117	RESISTOR CF 820E J 0W25
10 1153	R118	RESISTOR CF 27K J 0W25
10 1150	R119	RESISTOR CF 15K J 0W25
10 1141	R120	RESISTOR CF 2K7 J 0W25
10 1141	R121	RESISTOR CF 2K7 J 0W25
10 1112	R122	RESISTOR CF 10E J 0W25
10 1142	R123	RESISTOR CF 3K3 J 0W25
10 1142	R124	RESISTOR CF 3K3 J 0W25
10 1128	R150	RESISTOR CF 220E J 0W25
10 1246	R151	RESISTOR CF 6K8 J 0W50
10 1246	R152	RESISTOR CF 6K8 J 0W50
10 11369	R153	RESISTOR CFFUL 1K J 0W25
10 1137	R154	RESISTOR CF 1K2 J 0W25
10 1150	R155	RESISTOR CF 15K J 0W25
10 1140	R156	RESISTOR CF 2K2 J 0W25
10 1133	R157	RESISTOR CF 560E J 0W25
10 1137	R158	RESISTOR CF 1K2 J 0W25
10 3158	R159	RESISTOR MO 68K J 0W70
10 1133	R160	RESISTOR CF 560E J 0W25
10 1246	R161	RESISTOR CF 6K8 J 0W50
10 1246	R162	RESISTOR CF 6K8 J 0W50
10 11369	R163	RESISTOR CFFUL 1K J 0W25
10 1137	R164	RESISTOR CF 1K2 J 0W25
10 1150	R165	RESISTOR CF 15K J 0W25
10 1140	R166	RESISTOR CF 2K2 J 0W25
10 1133	R167	RESISTOR CF 560E J 0W25
10 1137	R168	RESISTOR CF 1K2 J 0W25
10 3158	R169	RESISTOR MO 68K J 0W70
10 1133	R170	RESISTOR CF 560E J 0W25

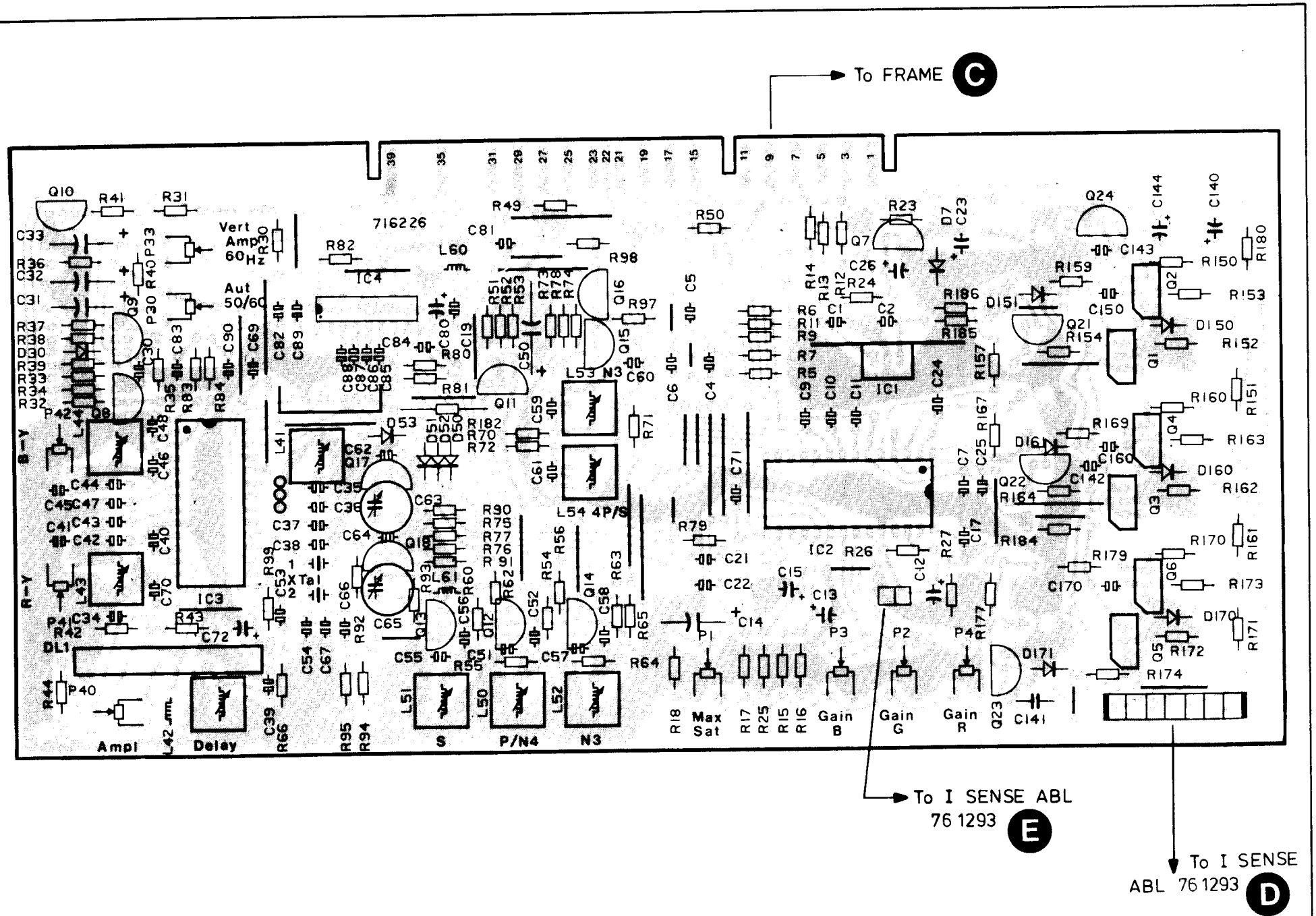
ITEM NO.	SIT.	DESCRIPTION			
10 1246	R171	RESISTOR CF	6K8	J	0W50
10 1246	R172	RESISTOR CF	6K8	J	0W50
10 11369	R173	RESISTOR CFFUL	1K	J	0W25
10 1137	R174	RESISTOR CF	1K2	J	0W25
10 1150	R175	RESISTOR CF	15K	J	0W25
10 1140	R176	RESISTOR CF	2K2	J	0W25
10 1133	R177	RESISTOR CF	560E	J	0W25
10 1137	R178	RESISTOR CF	1K2	J	0W25
10 3158	R179	RESISTOR MO	68K	J	0W70
10 1133	R180	RESISTOR CF	560E	J	0W25
10 1143	R181	RESISTOR CF	3K9	J	0W25
10 1143	R182	RESISTOR CF	3K9	J	0W25
30 6801	XTAL	X-TAL 4.433 610MHZ			
13 1756	Z..1	DIODE ZENER 7V5 0W5 C			
13 1754	Z..2	DIODE ZENER 3V3 0W5 C			
31 3578	002.	CONNECTOR MT MOBTE P 4 7,5			
30 2061	003.	COIL CAN 10X10X12			


P41 AMPLITUDE R-Y
L43 ZERO DISCRI. R-Y
P42 AMPLITUDE B-Y
L44 ZERO DISCRI. B-Y
P30 AUTO 50/60 Hz
P31 VERT. AMPL.(60 Hz)
PAL DELAY DECODER
P40 AMPLITUDE ADJUSTMENT
L40 PHASE ADJUSTMENT
L41 SECAM IDENTIFICATION
C63 X-TAL 1 (8,867 MHz)
C65 X-TAL 2 (7,159 MHz)
L51 MAX CHROMA SECAM
L50 MAX CHROMA PAL/N4
L52 MAX CHROMA N3
L53 CHROMA REJECTOR N3
L54 CHROMA REJECTOR P/S
P1 MAX. SATURATION
P3 GAIN BLUE
P2 GAIN GREEN
P4 GAIN RED
761368
ITT
3070

BARCO Electronic

QUAD DECODER + RGB AMPLIFIER ABL | Article no. 76 1368
Date 05/11/86 | Drawn PG | Checked RDF

MODIFICATIONS RESERVED



Ontvang een elektronisch PAL kleurentest-beeld (foto 1).

1. REFERENTIE OSCILLATOR (C63)

- indien geen kleur, draai aan de trimmer C63 totdat kleur bekomen wordt.
- sluit de kondensator C69 kort.
- regel de trimmer C63 voor kleurnulzweving.
- neem de kortsluiting weg.

2. CHROMA REJECTOR (L54) (foto 4)

- verbind de oscilloscoop met het knooppunt R79/C19 (Y signaal).
- regel de spoel L54 voor een minimum aan chromasignaal in het luminantiesignaal (Y).

3. CHROMA FILTER (L50) (foto 3)

- sluit de oscilloscoop aan op de emitter van Q12.
- regel de spoel L50 voor max. chromasignaal.

4. LOOPTIJDDEMODULATOR (L40-P40) (foto's 5, 6)

- sluit de oscilloscoop aan op de kondensator C22 (B-Y signaal).
- regel L40 "DELAYED PHASE ADJUST" en P40 "DELAYED AMP ADJUST" zoals respectievelijk op foto 5 en 6 is weergegeven.
- noteer de amplitudewaarde van het (B-Y)-signaal.
- sluit de oscilloscoop aan op de kondensator C21 (R-Y signaal).
- noteer de amplitudewaarde van het (R-Y)-signaal.

Schakel voor de twee volgende afregelingen de straalstroombegrenzing uit door diode D7 kort te sluiten.

5. MAX. SATURATIE (P1) (foto 2)

- sluit een voltmeter aan op klem 3 van de print.
- regel m.b.v. de afstandsbediening de kleur-saturatiespanning op klem 3 van de decoder op + 3,33 V.
- sluit de oscilloscoop aan op de weerstand R150 "B out" (zijde plug D).
- regel P1 "MAX SAT" zodanig dat de B-signalen op hetzelfde niveau liggen.

6. VERSTERKINGSREGELING "GAIN" (P4 - P2 - P3) (foto's 7, 8)

- regel d.m.v. de afstandsbediening helderheid en kleursaturatie op minimum en het kontrast op maximum.
- regel de potentiometers "GAIN" P4 (rood), P2 (groen) en P3 (blauw) zodanig dat op de respectievelijke kleuruitgangen van de decoder (plug D) de volgende amplitudewaarde gemeten wordt (tussen wit- en zwartniveau, bij een video inputsignaal van 1 Vpp) :

Beeldbuis	Rood	Groen	Blauw
Philips-ITT	112 V	110 V	93 V
Videocolor	115 V	110 V	103 V

7. 50/60 Hz DETECTOR (P30) (foto 13)

- sluit de oscilloscoop aan op de collector van Q9.
- regel P30 voor een pulsduur van 1,67 ms.

Ontvang een elektronisch SECAM kleurentest-beeld (foto 9).

8. KLOKFILTER (L51) (foto 10)

- sluit de oscilloscoop aan op de emitter van Q12.
- regel L51 voor een vlak amplitudeverloop van het signaal gedurende twee opeenvolgende lijnen.

9. SECAM IDENTIFICATIE (L41)

- verbind de voltmeter tussen de pinnen 21/20 van de IC 3 TDA 4555.
- regel de spoel L41 tot een max. spanning bekomen wordt met korrekte kleurweergave.

10. (B-Y) DISCRIMINATOR (L44 - P42) (foto 11)

- sluit de oscilloscoop aan op de kondensator C22.
- regel L44 zodat het niveau van het (B-Y)-signaal gedurende de ontvangst van de kleurloze beeldinformatie gelijk is aan het klemniveau gedurende de lijnonderdrukking.
- regel met P42 de (B-Y)-amplitude op dezelfde waarde als in punt (4).

11. (R-Y) DISCRIMINATOR (L43-P41) (foto 12)

- sluit de oscilloscoop aan op de kondensator C21.
- regel L43 zodat het niveau van het (R-Y)-signaal gedurende de ontvangst van de kleurloze beeldinformatie gelijk is aan het kleurniveau gedurende de lijnonderdrukking.
- regel met P41 de (R-Y)-amplitude op dezelfde waarde als in punt (4).

Ontvang een elektronisch NTSC 3,58-kleuren testbeeld.

12. REFERENTIE OSCILLATOR (C65)

- indien geen kleur, draai aan de trimmer C65 totdat kleur bekomen wordt.
- sluit de kondensator C69 kort.
- regel trimmer C65 voor een kleurnulzweving.
- neem de kortsluiting weg.

13. CHROMA REJECTOR (L53)

- verbind de oscilloscoop met knooppunt R79/C19 (Y-signaal).
- regel de spoel L53 voor een minimum aan chromasignaal in het luminantiesignaal (Y).

14. CHROMA FILTER (L52)

- sluit de oscilloscoop aan op de emitter van Q12.
- regel de spoel L52 voor max. chromasignaal.

15. VERT. AMPLITUDE KORREKTIE (P31)

Regel P31 voor dezelfde beeldhoogte als bij ontvangst van een PAL testbeeld (50 Hz).

BELANGRIJK : Schakel terug op het PAL testbeeld en kontroleer de versterkingsafregeling.

Recevoir une mire électronique de couleurs PAL (photo 1).

1. OSCILLATEUR DE REFERENCE (C63)

- s'il n'y a pas des couleurs, tourner C63 jusqu'à une image colorée est obtenue.
- court-circuiter le condensateur C69.
- ajuster C63 pour obtenir un battement des couleurs minimum.
- ôter le court-circuit.

2. REJECTEUR CHROMA (L54) (photo 4)

- brancher l'oscilloscope au noeud R79/C19 (signal Y).
- ajuster le noyau de L54 afin d'obtenir un minimum du signal chroma dans le signal de luminance (Y).

3. FILTRE CHROMA (L50) (photo 3)

- brancher l'oscilloscope à l'émetteur de Q12.
- ajuster L50 afin d'obtenir un maximum du signal chroma.

4. DECODEUR A TEMPS DE PROPAGATION (L40 - P40) (photos 5, 6)

- brancher l'oscilloscope au condensateur C22 (signal B-Y).
- ajuster L40 "DELAYED PHASE ADJUST" et P40 "DELAYED AMPL. ADJUST" comme illustré sur les photos.
- noter l'amplitude du signal B-Y.
- brancher l'oscilloscope au condensateur C21 (signal R-Y).
- noter l'amplitude du signal R-Y.

Pour les deux réglages suivants, mettre la limitation du courant de faisceau hors circuit en court-circuitant la diode D7.

5. MAX. SATURATION (P1) (photo 2)

- brancher un voltmètre à la borne 3 du connecteur de la plaquette.
- ajuster la saturation des couleurs avec la télécommande, afin d'obtenir + 3,33 V à la borne 3.
- brancher l'oscilloscope à la résistance R150 "B out" (coté fiche D).
- ajuster P1, afin que les signaux bleus se trouvent au même niveau.

6. AMPLIFICATION "GAIN" (P4 - P2 - P3) (photo 7, 8)

- régler, à l'aide de la télécommande, la saturation des couleurs et la luminosité au niveau minimum et le contraste au niveau maximum.
- régler les potentiomètres P4 (rouge), P2 (verte) et P3 (bleu) pourque l'amplitude du signal de couleur à la sortie respective corresponde à la valeur indiquée ci-dessous (entre le niveau blanc et le niveau noir et avec un signal vidéo de l'ampli IF de 1 Vpp) :

Tube	Rouge	Verte	Bleu
Philips-ITT	112 V	110 V	93 V
Videocolor	115 V	110 V	103 V

7. DETECTEUR 50/60 HZ (P30) (photo 13)

- brancher l'oscilloscope au collecteur du transistor Q9.
- ajuster P30 afin d'obtenir un largeur de pulse de 1,67 ms.

Recevoir une mire électronique de couleurs SECAM (photo 9).

8. FILTRE EN CLOCHE (L51) (photo 10)

- brancher l'oscilloscope à l'émetteur de Q12.
- ajuster L5 pour obtenir une amplitude la plus constante tout au long de deux lignes suivantes.

9. SECAM IDENTIFICATION (L41)

- brancher un voltmètre entre les broches 20 et 21 du CI 3 (TDA 4555).
- ajuster L41 jusqu'à obtenir une tension maximum avec une reproduction des couleurs correctes.

10. DISCRIMINATEUR (B-Y) (L44-P42) (photo 11)

- brancher l'oscilloscope au condensateur C22.
- ajuster L44 de sorte que le niveau du signal (B-Y) sans information de couleur soit au niveau de la suppression ligne.
- ajuster P42 de manière à ce que l'amplitude du (B-Y) est la même qu'en (4).

11. DISCRIMINATEUR (R-Y) (L43-P41) (photo 12)

- brancher l'oscilloscope au condensateur C21.
- ajuster L43 de sorte que le niveau du signal (R-Y) sans information de couleur soit au niveau de la suppression ligne.
- ajuster P41 de manière à ce que l'amplitude du (R-Y) est la même qu'en (4).

Recevoir une mire électronique de couleurs NTSC 3,58.

12. OSCILLATEUR DE REFERENCE (C65)

- s'il n'y a pas des couleurs, régler C65 jusqu'à une image colorée est obtenue.
- court-circuiter C69.
- ajuster C65 pour obtenir un battement des couleurs minimum.
- ôter le court-circuit.

13. REJECTEUR CHROMA (L53)

- brancher l'oscilloscope au noeud de R79/C19 (signal Y).
- ajuster L53 pour un minimum de signal de chroma dans le signal de luminance (Y).

14. CHROMA FILTRE (L52)

- brancher l'oscilloscope à l'émetteur de Q12.
- ajuster L52 pour un maximum de signal de chroma.

15. CORRECTION D'AMPLITUDE VERTICALE (P31)

Ajuster P31 afin d'obtenir la même hauteur de l'image qu'en recevant un signal PAL (50 Hz).

IMPORTANT : Recevoir une mire PAL et contrôler le réglage d'amplification (voir (6)).

Receive an electronic PAL colour test pattern (photo 1).

1. REFERENCE OSCILLATOR (C63)

- if there is no colour, adjust trimming capacitor C63 until colour is being received.
- short-circuit the capacitor C69.
- adjust the trimming capacitor C63 for colour zero beat.
- remove the short-circuit.

2. CHROMA REJECTOR (L54) (photo 4)

- connect the oscilloscope to the junction R79/C19 (Y signal).
- adjust the core of coil L54 for a minimum of chroma in the luminance signal (Y).

3. CHROMA FILTER (L50) (photo 3)

- connect the oscilloscope to the emitter of Q12.
- adjust the core of coil L50 for maximum chroma signal.

4. DELAY LINE MATRIX (L40 - P40) (photos 5, 6)

- connect the oscilloscope to the capacitor C22 (B-Y signal).
- adjust L40 (DELAYED PHASE ADJUST) and P40 (DELAYED AMP. ADJUST) as shown in photos 5 and 6.
- note the amplitude of the (B-Y) signal.
- connect the oscilloscope to the capacitor C21 (R-Y signal).
- note the amplitude of the (R-Y) signal.

Switch off the beam current limiter for the following two adjustments by short circuiting diode D7.

5. MAX. SATURATION (P1) (photo 2)

- connect a voltmeter to edge contact 3 of the PC board connector.
- adjust the colour saturation on the remote control for a + 3,33 V reading on the volt-voltmeter.
- connect the oscilloscope to resistor R150 "B out" (side plug D).
- adjust P1 (MAX SAT) so that the Blue-signals are on the same level.

6. RGB AMPLIFICATION (P4 - P2 - P3) (photo 7, 8)

- adjust colour saturation and brightness for minimum and contrast for maximum.
- adjust the potentiometers P4 (red), P2 (green) and P3 (blue) until the amplitude value (between black and white level with a video input signal from the IF amplifier of 1 Vpp) of the colour signal on the respective output corresponds to the below indicated values :

Tube	Red	Green	Blue
Philips-ITT	112 V	110 V	93 V
Videocolor	115 V	110 V	103 V

7. 50 HZ/60 HZ DETECTOR (P30) (photo 13)

- connect the oscilloscope to the collector of Q9.
- adjust P30 for a pulse width of 1.67 ms.

Receive an electronic SECAM test pattern (photo 9).

8. BELL FILTER (L51) (photo 10)

- connect the oscilloscope to the emitter of Q12.
- adjust L51 for a flat amplitude of the signal during two successive lines.

9. SECAM IDENTIFICATION (L41)

- connect the voltmeter between pins 21 and 20 of IC 3 (TDA 4555).
- adjust the core of coil L41 for a maximum voltage reading with a correct colour reproduction.

10. (B-Y) DISCRIMINATOR (L44 - P42) (photo 11)

- connect oscilloscope to the capacitor C22.
- adjust L44 so that the level of the (B-Y) signal without colour information is the same as the level during blanking.
- adjust P42 to obtain the same amplitude of (B-Y) as in point 4.

11. (R-Y) DISCRIMINATOR (L43 - P41) (photo 12)

- connect the oscilloscope to the capacitor C21.
- adjust L43 so that the level of the (R-Y) signal without colour information is the same as the level during blanking.
- adjust P41 to obtain the same amplitude of (R-Y) as in point 4.

Receive an electronic NTSC 3,58 colour test pattern.

12. REFERENCE OSCILLATOR (C65)

- if there is no colour, adjust trimming capacitor C65 until colour is being received.
- short circuit capacitor C69.
- adjust trimming capacitor C65 for a colour zero beat.
- remove the short-circuit.

13. CHROMA REJECTOR (L53)

- connect the oscilloscope to the junction R7/C19 (Y signal).
- adjust the core of coil L53 for a minimum of chroma in the luminance signal (Y).

14. CHROMA FILTER (L52)

- connect the oscilloscope to the emitter of Q12.
- adjust the core of coil L52 for a maximum chroma.

15. VERT. AMPLITUDE CORRECTION (P31)

Adjust potentiometer P31 for the same picture height as when receiving a PAL pattern (50 Hz).

IMPORTANT : Switch back to the PAL test pattern and check the gain alignment (point 6).

Empfangen Sie ein elektronisches PAL-Farbtestbild (Foto 1).

1. REFERENZOSZILLATOR (C63)

- wenn man keine Farbe hat, drehen Sie an C63 bis man Farben hat.
- C69 kurzschliessen.
- C63 abgleichen bis sich eine Farbschwebungsnull einstellt.
- Kurzschluss entfernen.

2. CHROMASPERRE (L54) (Foto 4)

- verbinden Sie den Oszillograpf mit dem Knotenpunkt R79/C19.
- Spule L54 so abgleichen, dass Sie eine minimale Chroma-Information im Leuchtdichtesignal (Y) bekommen.

3. CHROMAFILTER (L50) (Foto 3)

- verbinden Sie den Oszillograpf mit dem Emitter von Q12.
- L50 abgleichen für Maximum Chromasignal.

4. LAUFZEITDEMODULATOR (L40-P40) (Fotos 5, 6)

- verbinden Sie den Oszillograpf mit dem Kondensator C22 (Signal B-Y).
- L40 "DELAYED PHASE ADJUST" und P40 "DELAYED AMPL. ADJUST" so abgleichen, wie auf Foto 5 und 6 wiedergegeben ist.
- notieren Sie die Amplitude vom (B-Y)-Signal.
- verbinden Sie den Oszillograpf mit dem Kondensator C21 (Signal R-Y).
- notieren Sie die Amplitude vom (R-Y)-Signal.

Für die zwei folgenden Reglungen soll die Strahlstrombegrenzung abgeschaltet werden durch Diode D7 kurzzuschliessen.

5. MAX. SATTIGUNG (P1) (Foto 2)

- gleichen Sie mit der Fernbedienung die Farbsättigung für eine Spannung vom + 3,33 V auf die Klemme 3 des Dekodermoduls ab.
- schliessen Sie einen Oszillograpf an den Widerstand R150 "B out" an (Seite Buchse D).
- P1 abgleichen so dass die Blausignale auf gleichen Niveau legen.

6. RGB-VERSTAERKUNG (P4 - P2 - P3) (Foto 7, 8)

- stellen Sie, mit der Fernbedienung, den Kontrast auf Maximum, die Helligkeit und die Farbsättigung auf Minimum.
- stellen Sie den Potentiometer P4 (für Rot), P2 (für Grün) und P3 (für Blau) ein, so dass auf die respektiven Farbausgänge des Dekoders (Buchse D) den folgenden Signalamplitudewert gemessen wird (zwischen dem Weiss- und Schwarzniveau, bei einem Eingangssignal vom 1 Vpp) :

Tube	Rot	Grün	Blau
Philips-ITT	112 V	110 V	93 V
Videocolor	115 V	110 V	103 V

7. 50/60 HZ DETEKTOR (P30) (Foto 13)

- verbinden Sie einen Oszillograpf mit dem Emitter von Q12.
- regeln Sie den Potentiometer P30 für eine Pulsdauer von 1,67 ms.

Empfangen Sie ein elektronisches SECAM-Farbtestbild (Foto 9)

8. GLOCKFILTER (L51) (Foto 10)

- verbinden Sie den Oszillograpf mit dem Emitter von Q12.
- gleichem Sie L51 ab für einen flachen Amplitudeverlauf des Signales während zwei aufeinanderfolgender Zeilen.

9. SECAMIDENTIFIKATION (L41)

- Voltmeter zwischen den Anschlüsse 20 und 21 von IC 3 (TDA 4555) einschalten.
- den Kern der Spule L41 so eindrehen, bis eine Maximalspannung mit der richtigen Farbwiedergabe bekommen wird.

10. (B-Y) DISCRIMINATOR (L44-P42) (Foto 11)

- verbinden Sie den Oszillograpf mit dem Kondensator C22 (B-Y Signal).
- L44 so abgleichen, dass das Niveau des (B-Y) Signales während des Empfanges der farblosen Bildinformation mit dem Klemme niveau während der Zeilenunterdrückung übereinstimmt.
- mit P42 die (B-Y)-Amplitude abgleichen wie in Punkt 4.

11. (R-Y)-DISCRIMINATOR (L43-P41) (Foto 12)

- verbinden Sie den Oszillograpf mit dem Kondensator C21 (R-Y Signal).
- L43 so abgleichen, dass das Niveau des (R-Y)-Signales während des Empfanges der farblosen Bildinformation mit dem Farb-Niveau während der Zeilenunterdrückung übereinstimmt.
- mit P41 die (R-Y)-Amplitude abgleichen wie in Punkt 4.

Empfangen Sie ein NTSC 3,58 Farbtestbild.

12. REFERENZOSZILLATOR (C65)

- indem man keine Farben hat, drehen Sie an C65.
- C69 kurzschliessen.
- C65 abgleichen bis sich eine Farbschwebungsnull einstellt.
- Kurzschluss entfernen.

13. CHROMASPERRE (L53)

- verbinden Sie den Oszillograpf mit dem Knotenpunkt R79/C19.
- Spule L53 so abgleichen, dass Sie eine minimale Chroma-Information im Videosignal bekommen.

14. CHROMAFILTER (L52)

- verbinden Sie den Oszillograpf mit dem Emitter von Q12.
- L52 abgleichen für Maximum Chromasignal.

15. VERTIKALE AMPLITUDE KORREKTION (P31)

Reglen Sie P31 für eine gleiche Bildhöhe wie in einer PAL-Aussendung (50 Hz).

Wichtig : Empfangen Sie wieder eine PAL-Aussendung und kontrollieren Sie die Verstärkung (Punkt 6).

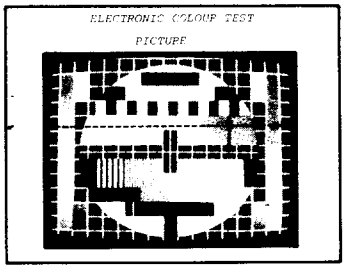


FOTO 1

Viewed VIDEO LINE for the alignment of :

- Max Saturation (P1)
- Pal Delay decoder (P40 - L40)
- Chroma Rejector (L54)
- Chroma Filter (L50)

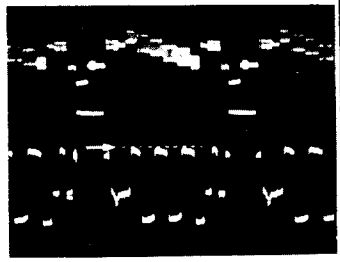
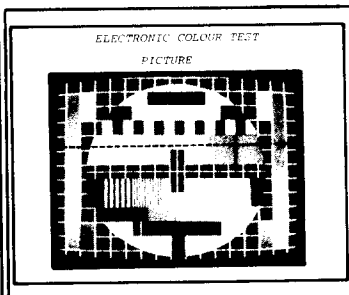


FOTO 2

MAX SATURATION P1

Upper track: viewed VIDEO line

Lower track: BLUE output signal



Viewed VIDEO LINE for the alignment of :

- Bell filter L51
- (B-Y) discriminator (L41 - P42)
- (R-Y) discriminator (L43 - P41)

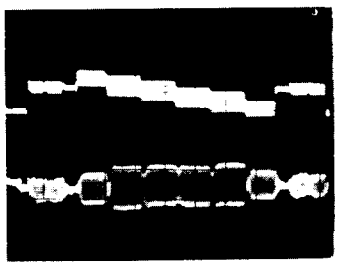


FOTO 3

CHROMA FILTER L50

Upper track: viewed VIDEO line

Lower track: max CHROMA signal

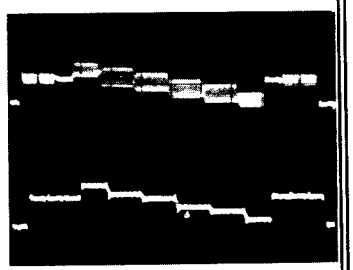


FOTO 4

CHROMA REJECTOR L54

Upper track: viewed VIDEO line

Lower track: luminance signal(Y)

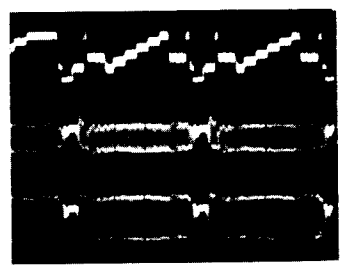


FOTO 10

BELL FILTER L51

Upper track: incorrect setting

Lower track: correct setting

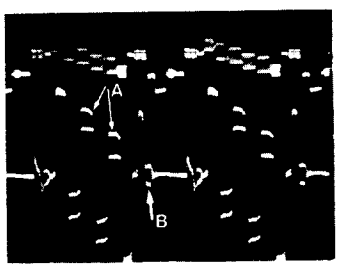


FOTO 5

ALIGNMENT OF THE PAL DELAY DECODER P40 - L40

Upper track: viewed VIDEO line

Lower track: A. incorrect PHASE setting

B. incorrect AMPLITUDE setting

FOTO 6

Upper track: viewed VIDEO line

Lower track: correctly aligned Pal Delay Decoder

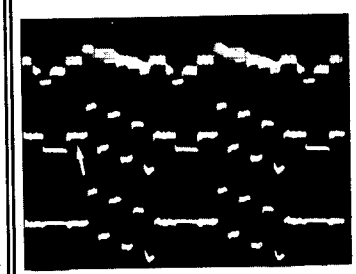


FOTO 11

(B-Y) DISCRIMINATOR

Upper track: viewed VIDEO line

Lower track 1: incorrect PHASE setting

2: correct PHASE setting

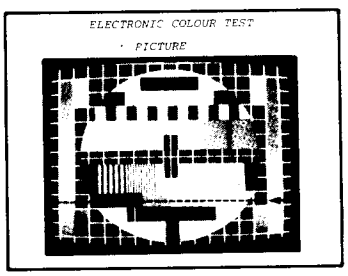


FOTO 7

Viewed VIDEO LINE for the alignement of the AMPLITUDE of the RED - GREEN - BLUE output signal

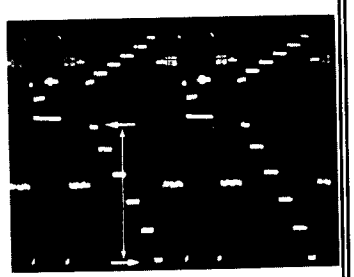


FOTO 8

Upper track: viewed VIDEO line

Lower track: amplitude of the output signal

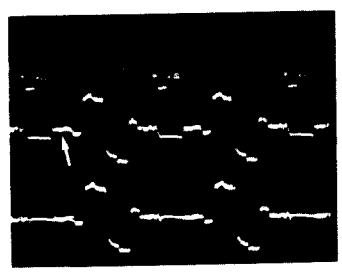


FOTO 12

(R-Y) DISCRIMINATOR

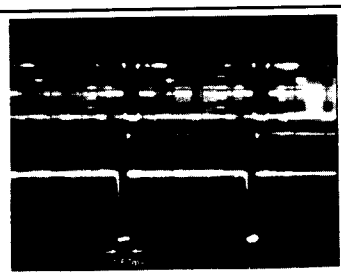
Upper track: viewed VIDEO line

Lower track 1: incorrect PHASE setting

2: correct PHASE setting

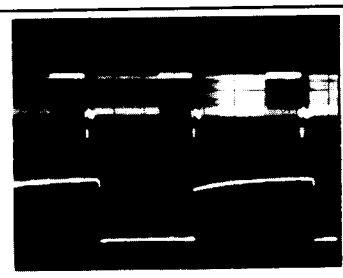
THE ALIGNMENT OF THE 50/60 Hz AUTOMATIC P30

FOTO 13



Upper track: VIDEO SIGNAL (Frame frequency 50 Hz)

Lower track: pulse duration 1.67 ms



Upper track: VIDEO SIGNAL (Frame frequency 60 Hz)

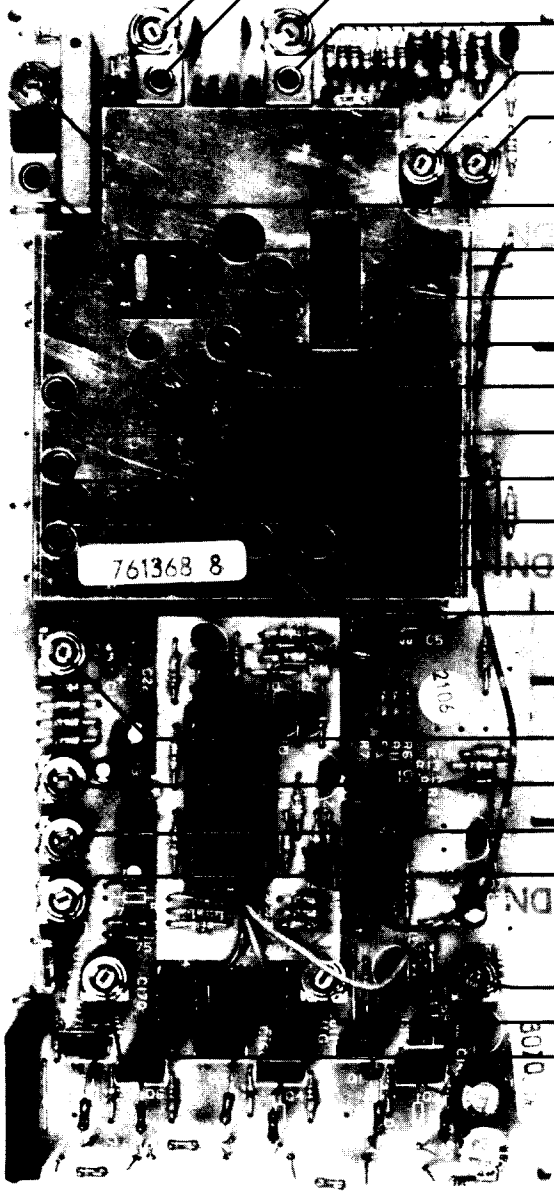
Lower track: pulse duration

ITEM NO.	SIT.	DESCRIPTION
11 2774	C..1	CAPACITOR CE MI 100K U5 63
11 2774	C..2	CAPACITOR CE MI 100K U5 63
11 3724	C..4	CAPACITOR POME 100K K5 63
11 3724	C..5	CAPACITOR POME 100K K5 63
11 3724	C..6	CAPACITOR POME 100K K5 63
11 2774	C..7	CAPACITOR CE MI 100K U5 63
11 2770	C..9	CAPACITOR CE MI 22K U5 63
11 2770	C.10	CAPACITOR CE MI 22K U5 63
11 2770	C.11	CAPACITOR CE MI 22K U5 63
11 1511	C.12	CAPACITOR ELPRMI 33M M5 16
11 1546	C.13	CAPACITOR ELPRMI 1M M5 50
11 11841	C.14	CAPACITOR ELAX 1M T 40
11 1531	C.15	CAPACITOR ELPRMI 10M M5 35
11 3730	C.17	CAPACITOR POME 330K K5 63
11 3724	C.19	CAPACITOR POME 100K K5 63
11 37161	C.21	CAPACITOR POME 22K K5 100
11 37161	C.22	CAPACITOR POME 22K K5 100
11 1550	C.23	CAPACITOR ELPRMI 4M7 M5 50
11 3730	C.24	CAPACITOR POME 330K K5 63
11 3730	C.25	CAPACITOR POME 330K K5 63
11 3730	C.30	CAPACITOR POME 330K K5 63
11 11565	C.31	CAPACITOR ELAX 10M Z 25
11 11565	C.32	CAPACITOR ELAX 10M Z 25
11 11565	C.33	CAPACITOR ELAX 10M Z 25
11 37161	C.34	CAPACITOR POME 22K K5 100
11 2365	C.35	CAPACITOR N750MI 180P J5 63
11 2739	C.36	CAPACITOR CE MI 1K K5 63
11 37161	C.37	CAPACITOR POME 22K K5 100
11 37161	C.38	CAPACITOR POME 22K K5 100
11 2774	C.39	CAPACITOR CE MI 100K U5 63
11 2763	C.40	CAPACITOR CE MI 10K U5 63
11 2243	C.41	CAPACITOR NPO MI 120P J5 63
11 2234	C.42	CAPACITOR NPO MI 22P G5 63
11 2240	C.43	CAPACITOR NPO MI 68P J5 63
11 2234	C.44	CAPACITOR NPO MI 22P G5 63
11 2243	C.45	CAPACITOR NPO MI 120P J5 63
11 2240	C.46	CAPACITOR NPO MI 68P J5 63
11 2366	C.47	CAPACITOR N750MI 220P J5 63
11 2366	C.48	CAPACITOR N750MI 220P J5 63
11 11565	C.50	CAPACITOR ELAX 10M Z 25
11 2364	C.51	CAPACITOR N750MI 150P J5 63
11 2739	C.52	CAPACITOR CE MI 1K K5 63
11 2366	C.53	CAPACITOR N750MI 220P J5 63
11 3730	C.54	CAPACITOR POME 330K K5 63
11 59061	C.55	CAPACITOR PP RA 390P J5 100
11 2739	C.56	CAPACITOR CE MI 1K K5 63
11 2366	C.57	CAPACITOR N750MI 220P J5 63
11 2739	C.58	CAPACITOR CE MI 1K K5 63
11 2243	C.59	CAPACITOR NPO MI 120P J5 63
11 3732	C.60	CAPACITOR POME 470K K5 63
11 22415	C.61	CAPACITOR NPO MI 82P J5 63
11 2739	C.62	CAPACITOR CE MI 1K K5 63
11 7001	C.63	CAPACITOR TRIM 7 -35P 160
11 2739	C.64	CAPACITOR CE MI 1K K5 63
11 7001	C.65	CAPACITOR TRIM 7 -35P 160
11 3730	C.66	CAPACITOR POME 330K K5 63
11 3720	C.67	CAPACITOR POME 47K K5 63
11 2739	C.69	CAPACITOR CE MI 1K K5 63
11 3728	C.70	CAPACITOR POME 220K K5 63
11 2238	C.71	CAPACITOR NPO MI 47P G5 63
11 1510	C.72	CAPACITOR ELPRMI 22M M5 25
11 1510	C.80	CAPACITOR ELPRMI 22M M5 25
11 3730	C.81	CAPACITOR POME 330K K5 63
11 3730	C.82	CAPACITOR POME 330K K5 63
11 2242	C.83	CAPACITOR NPO MI 100P J5 63
11 2735	C.84	CAPACITOR CE MI 470P K5 63
11 2735	C.85	CAPACITOR CE MI 470P K5 63
11 2368	C.86	CAPACITOR N750MI 330P J5 63
11 22395	C.87	CAPACITOR NPO MI 56P G5 63
11 22395	C.88	CAPACITOR NPO MI 56P G5 63

ITEM NO.	SIT.	DESCRIPTION
11 3730	C.89	CAPACITOR POME 330K K5 63
11 2242	C.90	CAPACITOR NPO MI 100P J5 63
11 1571	C140	CAPACITOR ELPR 2M2 M5 350
11 4132	C141	CAPACITOR POMEFF 100K K 250
11 2774	C142	CAPACITOR CE MI 100K U5 63
11 2774	C143	CAPACITOR CE MI 100K U5 63
11 1478	C144	CAPACITOR ELPR 220M Z5 25
11 2831	C150	CAPACITOR CE DI 3K3 S 400
11 2831	C160	CAPACITOR CE DI 3K3 S 400
11 2831	C170	CAPACITOR CE DI 3K3 S 400
13 1621	D..7	DIODE 1N4148 SWITCH
13 1621	D.30	DIODE 1N4148 SWITCH
13 1621	D.50	DIODE 1N4148 SWITCH
13 1621	D.51	DIODE 1N4148 SWITCH
13 1621	D.52	DIODE 1N4148 SWITCH
13 1621	D.53	DIODE 1N4148 SWITCH
13 1628	D150	DIODE BAW62 SWITCH
13 1621	D151	DIODE 1N4148 SWITCH
13 1628	D160	DIODE BAW62 SWITCH
13 1621	D161	DIODE 1N4148 SWITCH
13 1628	D170	DIODE BAW62 SWITCH
13 1621	D171	DIODE 1N4148 SWITCH
30 6511	DL.1	DELAY LINE M P/S DL710,DL711
13 4002	I..1	INTEGRATED CIRCUIT 7812
13 2779	I..2	INTEGRATED CIRCUIT 3505 TDA
13 2778	I..3	INTEGRATED CIRCUIT 4555 TDA
13 2773	I..4	INTEGRATED CIRCUIT 4560/65 TDA
77 4212	L.40	COIL N40 C5 D0,125PALREC
77 4212	L.41	COIL N40 C5 D0,125PALREC
30 6024	L.42	CHOKE RA NS 10 UH
77 4212	L.43	COIL N40 C5 D0,125PALREC
77 4212	L.44	COIL N40 C5 D0,125PALREC
77 4212	L.50	COIL N40 C5 D0,125PALREC
77 3310	L.51	COIL N27,5 K5 D0,14 IF32
77 4212	L.52	COIL N40 C5 D0,125PALREC
77 4211	L.53	COIL N56 K5 D0,125 PHASE
77 4211	L.54	COIL N56 K5 D0,125 PHASE
10 6109	P..1	TRIMPOT CAMH 47K M OW05
10 6107	P..2	TRIMPOT CAMH 10K M OW05
10 6107	P..3	TRIMPOT CAMH 10K M OW05
10 6107	P..4	TRIMPOT CAMH 10K M OW05
10 6111	P.30	TRIMPOT CAMH 100K M OW05
10 6113	P.31	TRIMPOT CAMH 470K M OW05
10 6102	P.40	TRIMPOT CAMH 220E M OW05
10 6105	P.41	TRIMPOT CAMH 2K2 M OW05
10 6105	P.42	TRIMPOT CAMH 2K2 M OW05
71 6226	PC..	PC 40 DEC QUAD+RGB ABL 761368
13 25146	Q..1	TRANSISTOR BF869
13 25146	Q..2	TRANSISTOR BF869
13 25146	Q..3	TRANSISTOR BF869
13 25146	Q..4	TRANSISTOR BF869
13 25146	Q..5	TRANSISTOR BF869
13 25146	Q..6	TRANSISTOR BF869
13 1429	Q..7	TRANSISTOR BC548B,BC238B
13 1429	Q..8	TRANSISTOR BC548B,BC238B
13 1429	Q..9	TRANSISTOR BC548B,BC238B
13 1429	Q.10	TRANSISTOR BC548B,BC238B
13 1429	Q.11	TRANSISTOR BC548B,BC238B
13 1429	Q.12	TRANSISTOR BC548B,BC238B
13 1429	Q.13	TRANSISTOR BC548B,BC238B
13 1429	Q.14	TRANSISTOR BC548B,BC238B
13 1429	Q.15	TRANSISTOR BC548B,BC238B
13 1429	Q.16	TRANSISTOR BC548B,BC238B

ITEM NO.	SIT.	DESCRIPTION
13 1429	Q.17	TRANSISTOR BC548B,BC238B
13 1429	Q.18	TRANSISTOR BC548B,BC238B
13 2507	Q.21	TRANSISTOR BF324
13 2507	Q.22	TRANSISTOR BF324
13 2507	Q.23	TRANSISTOR BF324
13 14311	Q.24	TRANSISTOR BC327
10 11231	R..5	RESISTOR CF 75E J 0W25
10 1100	R..6	RESISTOR CF 1E J 0W25
10 11231	R..7	RESISTOR CF 75E J 0W25
10 11231	R..9	RESISTOR CF 75E J 0W25
10 11231	R.11	RESISTOR CF 75E J 0W25
10 1152	R.12	RESISTOR CF 22K J 0W25
10 1155	R.13	RESISTOR CF 39K J 0W25
10 1158	R.14	RESISTOR CF 68K J 0W25
10 1159	R.15	RESISTOR CF 82K J 0W25
10 1150	R.16	RESISTOR CF 15K J 0W25
10 1160	R.17	RESISTOR CF 100K J 0W25
10 1159	R.18	RESISTOR CF 82K J 0W25
10 1124	R.23	RESISTOR CF 100E J 0W25
10 1140	R.24	RESISTOR CF 2K2 J 0W25
10 1155	R.25	RESISTOR CF 39K J 0W25
10 1145	R.26	RESISTOR CF 5K6 J 0W25
10 1153	R.27	RESISTOR CF 27K J 0W25
10 1139	R.30	RESISTOR CF 1K8 J 0W25
10 1141	R.31	RESISTOR CF 2K7 J 0W25
10 1162	R.32	RESISTOR CF 150K J 0W25
10 1136	R.33	RESISTOR CF 1K J 0W25
10 1136	R.34	RESISTOR CF 1K J 0W25
10 1151	R.35	RESISTOR CF 18K J 0W25
10 1157	R.36	RESISTOR CF 56K J 0W25
10 1137	R.37	RESISTOR CF 1K2 J 0W25
10 1142	R.38	RESISTOR CF 3K3 J 0W25
10 1144	R.39	RESISTOR CF 4K7 J 0W25
10 1148	R.40	RESISTOR CF 10K J 0W25
10 1156	R.41	RESISTOR CF 47K J 0W25
10 1137	R.42	RESISTOR CF 1K2 J 0W25
10 1131	R.43	RESISTOR CF 390E J 0W25
10 1127	R.44	RESISTOR CF 180E J 0W25
10 1130	R.49	RESISTOR CF 330E J 0W25
10 1148	R.50	RESISTOR CF 10K J 0W25
10 1153	R.51	RESISTOR CF 27K J 0W25
10 1151	R.52	RESISTOR CF 18K J 0W25
10 1136	R.53	RESISTOR CF 1K J 0W25
10 1142	R.54	RESISTOR CF 3K3 J 0W25
10 1138	R.55	RESISTOR CF 1K5 J 0W25
10 1150	R.56	RESISTOR CF 15K J 0W25
10 1140	R.60	RESISTOR CF 2K2 J 0W25
10 1150	R.62	RESISTOR CF 15K J 0W25
10 1132	R.63	RESISTOR CF 470E J 0W25
10 1127	R.64	RESISTOR CF 180E J 0W25
10 1150	R.65	RESISTOR CF 15K J 0W25
10 1140	R.66	RESISTOR CF 2K2 J 0W25
10 1122	R.70	RESISTOR CF 68E J 0W25
10 1150	R.71	RESISTOR CF 15K J 0W25
10 1122	R.72	RESISTOR CF 68E J 0W25
10 1134	R.73	RESISTOR CF 680E J 0W25
10 1140	R.74	RESISTOR CF 2K2 J 0W25

ITEM NO.	SIT.	DESCRIPTION
10 1144	R.75	RESISTOR CF 4K7 J 0W25
10 1144	R.76	RESISTOR CF 4K7 J 0W25
10 1144	R.77	RESISTOR CF 4K7 J 0W25
10 1134	R.78	RESISTOR CF 680E J 0W25
10 1124	R.79	RESISTOR CF 100E J 0W25
10 1128	R.80	RESISTOR CF 220E J 0W25
10 1128	R.81	RESISTOR CF 220E J 0W25
10 1137	R.82	RESISTOR CF 1K2 J 0W25
10 1136	R.83	RESISTOR CF 1K J 0W25
10 1136	R.84	RESISTOR CF 1K J 0W25
10 1148	R.90	RESISTOR CF 10K J 0W25
10 1148	R.91	RESISTOR CF 10K J 0W25
10 1148	R.92	RESISTOR CF 10K J 0W25
10 1148	R.93	RESISTOR CF 10K J 0W25
10 1144	R.94	RESISTOR CF 4K7 J 0W25
10 1148	R.95	RESISTOR CF 10K J 0W25
10 1136	R.96	RESISTOR CF 1K J 0W25
10 1150	R.97	RESISTOR CF 15K J 0W25
10 1142	R.98	RESISTOR CF 3K3 J 0W25
10 1164	R.99	RESISTOR CF 220K J 0W25
10 1124	R150	RESISTOR CF 100E J 0W25
10 1246	R151	RESISTOR CF 6K8 J 0W50
10 1246	R152	RESISTOR CF 6K8 J 0W50
10 11369	R153	RESISTOR CFFUL 1K J 0W25
10 1134	R154	RESISTOR CF 680E J 0W25
10 1136	R157	RESISTOR CF 1K J 0W25
10 3158	R159	RESISTOR MO 68K J 0W70
10 1124	R160	RESISTOR CF 100E J 0W25
10 1246	R161	RESISTOR CF 6K8 J 0W50
10 1246	R162	RESISTOR CF 6K8 J 0W50
10 11369	R163	RESISTOR CFFUL 1K J 0W25
10 1134	R164	RESISTOR CF 680E J 0W25
10 1136	R167	RESISTOR CF 1K J 0W25
10 3158	R169	RESISTOR MO 68K J 0W70
10 1124	R170	RESISTOR CF 100E J 0W25
10 1246	R171	RESISTOR CF 6K8 J 0W50
10 1246	R172	RESISTOR CF 6K8 J 0W50
10 11369	R173	RESISTOR CFFUL 1K J 0W25
10 1134	R174	RESISTOR CF 680E J 0W25
10 1136	R177	RESISTOR CF 1K J 0W25
10 3158	R179	RESISTOR MO 68K J 0W70
10 1128	R180	RESISTOR CF 220E J 0W25
10 1233	R182	RESISTOR CF 560E J 0W50
10 1133	R184	RESISTOR CF 560E J 0W25
10 1131	R185	RESISTOR CF 390E J 0W25
10 1133	R186	RESISTOR CF 560E J 0W25
30 6816	XT.1	X-TAL 8,867 238 MHZ
30 6849	XT.2	X-TAL 7,159 090 MHZ PCM 5MM
31 3251	001.	CONNECTOR PIN MOBTE D0,8WIRE
31 3578	002.	CONNECTOR MT MOBTE P 4 7,5
31 35866	003.	CONNECTOR MT MOBTE P 7 2,5
30 2061	004.	COIL CAN 10X10X12
31 3584	005.	CONNECTOR MT MOBTE P 2 2,5
31 33921	006.	CONNECTOR JUMP F TE P 2 2,5
80 1001	007.	SCREENING DEC QUAD
34 81147	1000	JUMPER INSULATED M 37,5 MM



P41 AMPLITUDE R-Y
L43 ZERO DISCRI. R-Y
P42 AMPLITUDE B-Y
L44 ZERO DISCRI. B-Y
P30 AUTO 50/60 Hz
P31 VERT. AMPL.(60 Hz)
PAL DELAY DECODER
P40 AMPLITUDE ADJUSTMENT
L40 PHASE ADJUSTMENT
L41 SECAM IDENTIFICATION
C63 X-TAL 1 (8,867 MHz)
C65 X-TAL 2 (7,159 MHz)
L51 MAX CHROMA SECAM
L50 MAX CHROMA PAL/N4
L52 MAX CHROMA N3
L53 CHROMA REJECTOR N3
L54 CHROMA REJECTOR P/S

P1 MAX. SATURATION
P3 GAIN BLUE
P2 GAIN GREEN
P4 GAIN RED

GREY SCALE ADJUSTMENT
P150 CUT OFF BLUE
P160 CUT OFF GREEN
P170 CUT OFF RED

ITEM NO.	SIT.	DESCRIPTION
11 2774	C..1	CAPACITOR CE MI 100K U5 63
11 2774	C..2	CAPACITOR CE MI 100K U5 63
11 3724	C..4	CAPACITOR POME 100K K5 63
11 3724	C..5	CAPACITOR POME 100K K5 63
11 3724	C..6	CAPACITOR POME 100K K5 63
11 2774	C..7	CAPACITOR CE MI 100K U5 63
11 2770	C..9	CAPACITOR CE MI 22K U5 63
11 2770	C.10	CAPACITOR CE MI 22K U5 63
11 2770	C.11	CAPACITOR CE MI 22K U5 63
11 1511	C.12	CAPACITOR ELPRMI 33M M5 16
11 1546	C.13	CAPACITOR ELPRMI 1M M5 50
11 11841	C.14	CAPACITOR ELAX 1M T 40
11 1531	C.15	CAPACITOR ELPRMI 10M M5 35
11 3730	C.17	CAPACITOR POME 330K K5 63
11 3724	C.19	CAPACITOR POME 100K K5 63
11 37161	C.21	CAPACITOR POME 22K K5 100
11 37161	C.22	CAPACITOR POME 22K K5 100
11 1550	C.23	CAPACITOR ELPRMI 4M7 M5 50
11 3730	C.24	CAPACITOR POME 330K K5 63
11 3730	C.25	CAPACITOR POME 330K K5 63
11 3730	C.30	CAPACITOR POME 330K K5 63
11 11565	C.31	CAPACITOR ELAX 10M Z 25
11 11565	C.32	CAPACITOR ELAX 10M Z 25
11 11565	C.33	CAPACITOR ELAX 10M Z 25
11 37161	C.34	CAPACITOR POME 22K K5 100
11 2365	C.35	CAPACITOR N750MI 180P J5 63
11 2739	C.36	CAPACITOR CE MI 1K K5 63
11 37161	C.37	CAPACITOR POME 22K K5 100
11 37161	C.38	CAPACITOR POME 22K K5 100
11 2774	C.39	CAPACITOR CE MI 100K U5 63
11 2763	C.40	CAPACITOR CE MI 10K U5 63
11 2243	C.41	CAPACITOR NPO MI 120P J5 63
11 2234	C.42	CAPACITOR NPO MI 22P G5 63
11 2240	C.43	CAPACITOR NPO MI 68P J5 63
11 2234	C.44	CAPACITOR NPO MI 22P G5 63
11 2243	C.45	CAPACITOR NPO MI 120P J5 63
11 2240	C.46	CAPACITOR NPO MI 68P J5 63
11 2366	C.47	CAPACITOR N750MI 220P J5 63
11 2366	C.48	CAPACITOR N750MI 220P J5 63
11 11565	C.50	CAPACITOR ELAX 10M Z 25
11 2364	C.51	CAPACITOR N750MI 150P J5 63
11 2739	C.52	CAPACITOR CE MI 1K K5 63
11 3730	C.54	CAPACITOR POME 330K K5 63
11 59061	C.55	CAPACITOR PP RA 390P J5 100
11 2739	C.56	CAPACITOR CE MI 1K K5 63
11 2366	C.57	CAPACITOR N750MI 220P J5 63
11 2739	C.58	CAPACITOR CE MI 1K K5 63
11 2243	C.59	CAPACITOR NPO MI 120P J5 63
11 3732	C.60	CAPACITOR POME 470K K5 63
11 22415	C.61	CAPACITOR NPO MI 82P J5 63
11 2739	C.62	CAPACITOR CE MI 1K K5 63
11 7001	C.63	CAPACITOR TRIM 7 -35P 160
11 2739	C.64	CAPACITOR CE MI 1K K5 63
11 7001	C.65	CAPACITOR TRIM 7 -35P 160
11 3730	C.66	CAPACITOR POME 330K K5 63
11 3720	C.67	CAPACITOR POME 47K K5 63
11 2739	C.69	CAPACITOR CE MI 1K K5 63
11 3728	C.70	CAPACITOR POME 220K K5 63
11 2238	C.71	CAPACITOR NPO MI 47P G5 63
11 1510	C.72	CAPACITOR ELPRMI 22M M5 25
11 1510	C.80	CAPACITOR ELPRMI 22M M5 25
11 3730	C.81	CAPACITOR POME 330K K5 63
11 3730	C.82	CAPACITOR POME 330K K5 63
11 2242	C.83	CAPACITOR NPO MI 100P J5 63
11 2735	C.84	CAPACITOR CE MI 470P K5 63
11 2735	C.85	CAPACITOR CE MI 470P K5 63
11 2368	C.86	CAPACITOR N750MI 330P J5 63
11 22395	C.87	CAPACITOR NPO MI 56P G5 63
11 22395	C.88	CAPACITOR NPO MI 56P G5 63
11 3730	C.89	CAPACITOR POME 330K K5 63
11 2242	C.90	CAPACITOR NPO MI 100P J5 63
11 1571	C140	CAPACITOR ELPR 2M2 M5 350
11 4132	C141	CAPACITOR POMEFF 100K K 250
11 2774	C142	CAPACITOR CE MI 100K U5 63
11 2774	C143	CAPACITOR CE MI 100K U5 63
11 1478	C144	CAPACITOR ELPR 220M Z5 25
11 2831	C150	CAPACITOR CE DI 3K3 S 400
11 2831	C160	CAPACITOR CE DI 3K3 S 400
11 2831	C170	CAPACITOR CE DI 3K3 S 400
13 1621	D..7	DIODE 1N4148 SWITCH
13 1621	D.30	DIODE 1N4148 SWITCH
13 1621	D.50	DIODE 1N4148 SWITCH
13 1621	D.51	DIODE 1N4148 SWITCH
13 1621	D.52	DIODE 1N4148 SWITCH
13 1621	D.53	DIODE 1N4148 SWITCH
13 1628	D150	DIODE BAW62 SWITCH
13 1621	D151	DIODE 1N4148 SWITCH
13 1628	D160	DIODE BAW62 SWITCH
13 1621	D161	DIODE 1N4148 SWITCH
13 1628	D170	DIODE BAW62 SWITCH
13 1621	D171	DIODE 1N4148 SWITCH
30 6511	DL.1	DELAY LINE M P/S DL710,DL711
13 4002	I..1	INTEGRATED CIRCUIT 7812
13 2778	I..3	INTEGRATED CIRCUIT 4555 TDA
13 2773	I..4	INTEGRATED CIRCUIT 4560/65 TDA
77 4212	L.40	COIL N40 C5 D0,125PALREC
77 4212	L.41	COIL N40 C5 D0,125PALREC
30 6024	L.42	CHOKE RA NS 10 UH
77 4212	L.43	COIL N40 C5 D0,125PALREC
77 4212	L.44	COIL N40 C5 D0,125PALREC
77 4212	L.50	COIL N40 C5 D0,125PALREC
77 3310	L.51	COIL N27,5 K5 D0,14 IF32
77 4212	L.52	COIL N40 C5 D0,125PALREC
77 4211	L.53	COIL N56 K5 D0,125 PHASE
77 4211	L.54	COIL N56 K5 D0,125 PHASE
10 6109	P..1	TRIMPOT CAMH 47K M 0W05
10 6107	P..2	TRIMPOT CAMH 10K M 0W05
10 6107	P..3	TRIMPOT CAMH 10K M 0W05
10 6107	P..4	TRIMPOT CAMH 10K M 0W05
10 6111	P.30	TRIMPOT CAMH 100K M 0W05
10 6113	P.31	TRIMPOT CAMH 470K M 0W05
10 6102	P.40	TRIMPOT CAMH 220E M 0W05
10 6105	P.41	TRIMPOT CAMH 2K2 M 0W05
10 6105	P.42	TRIMPOT CAMH 2K2 M 0W05
10 6107	P150	TRIMPOT CAMH 10K M 0W05
10 6107	P160	TRIMPOT CAMH 10K M 0W05
10 6107	P170	TRIMPOT CAMH 10K M 0W05
71 6226	PC..	PC 40 DEC QUAD+RGB ABL 761368
13 25146	Q..1	TRANSISTOR BF869
13 25146	Q..2	TRANSISTOR BF869
13 25146	Q..3	TRANSISTOR BF869
13 25146	Q..4	TRANSISTOR BF869
13 25146	Q..5	TRANSISTOR BF869
13 25146	Q..6	TRANSISTOR BF869
13 1429	Q..7	TRANSISTOR BC548B,BC238B
13 1429	Q..8	TRANSISTOR BC548B,BC238B
13 1429	Q..9	TRANSISTOR BC548B,BC238B
13 1429	Q.10	TRANSISTOR BC548B,BC238B
13 1429	Q.11	TRANSISTOR BC548B,BC238B
13 1429	Q.12	TRANSISTOR BC548B,BC238B
13 1429	Q.13	TRANSISTOR BC548B,BC238B
13 1429	Q.14	TRANSISTOR BC548B,BC238B
13 1429	Q.15	TRANSISTOR BC548B,BC238B

ITEM NO.	SIT.	DESCRIPTION
13 1429	Q.16	TRANSISTOR BC548B,BC238B
13 1429	Q.17	TRANSISTOR BC548B,BC238B
13 1429	Q.18	TRANSISTOR BC548B,BC238B
13 2507	Q.21	TRANSISTOR BF324
13 2507	Q.22	TRANSISTOR BF324
13 2507	Q.23	TRANSISTOR BF324
13 14311	Q.24	TRANSISTOR BC327
10 11231	R..5	RESISTOR CF 75E J 0W25
10 1100	R..6	RESISTOR CF 1E J 0W25
10 11231	R..7	RESISTOR CF 75E J 0W25
10 11231	R..9	RESISTOR CF 75E J 0W25
10 11231	R.11	RESISTOR CF 75E J 0W25
10 1152	R.12	RESISTOR CF 22K J 0W25
10 1155	R.13	RESISTOR CF 39K J 0W25
10 1158	R.14	RESISTOR CF 68K J 0W25
10 1159	R.15	RESISTOR CF 82K J 0W25
10 1150	R.16	RESISTOR CF 15K J 0W25
10 1160	R.17	RESISTOR CF 100K J 0W25
10 1159	R.18	RESISTOR CF 82K J 0W25
10 1124	R.23	RESISTOR CF 100E J 0W25
10 1140	R.24	RESISTOR CF 2K2 J 0W25
10 1155	R.25	RESISTOR CF 39K J 0W25
10 1145	R.26	RESISTOR CF 5K6 J 0W25
10 1153	R.27	RESISTOR CF 27K J 0W25
10 1141	R.31	RESISTOR CF 2K7 J 0W25
10 1162	R.32	RESISTOR CF 150K J 0W25
10 1136	R.33	RESISTOR CF 1K J 0W25
10 1136	R.34	RESISTOR CF 1K J 0W25
10 1151	R.35	RESISTOR CF 18K J 0W25
10 1157	R.36	RESISTOR CF 56K J 0W25
10 1137	R.37	RESISTOR CF 1K2 J 0W25
10 1142	R.38	RESISTOR CF 3K3 J 0W25
10 1144	R.39	RESISTOR CF 4K7 J 0W25
10 1148	R.40	RESISTOR CF 10K J 0W25
10 1156	R.41	RESISTOR CF 47K J 0W25
10 1137	R.42	RESISTOR CF 1K2 J 0W25
10 1131	R.43	RESISTOR CF 390E J 0W25
10 1127	R.44	RESISTOR CF 180E J 0W25
10 1130	R.49	RESISTOR CF 330E J 0W25
10 1148	R.50	RESISTOR CF 10K J 0W25
10 1153	R.51	RESISTOR CF 27K J 0W25
10 1151	R.52	RESISTOR CF 18K J 0W25
10 1136	R.53	RESISTOR CF 1K J 0W25
10 1142	R.54	RESISTOR CF 3K3 J 0W25
10 1138	R.55	RESISTOR CF 1K5 J 0W25
10 1150	R.56	RESISTOR CF 15K J 0W25
10 1140	R.60	RESISTOR CF 2K2 J 0W25
10 1150	R.62	RESISTOR CF 15K J 0W25
10 1132	R.63	RESISTOR CF 470E J 0W25
10 1127	R.64	RESISTOR CF 180E J 0W25
10 1150	R.65	RESISTOR CF 15K J 0W25
10 1140	R.66	RESISTOR CF 2K2 J 0W25
10 1122	R.70	RESISTOR CF 68E J 0W25
10 1150	R.71	RESISTOR CF 15K J 0W25
10 1122	R.72	RESISTOR CF 68E J 0W25
10 1134	R.73	RESISTOR CF 680E J 0W25
10 1140	R.74	RESISTOR CF 2K2 J 0W25
10 1144	R.75	RESISTOR CF 4K7 J 0W25
10 1144	R.76	RESISTOR CF 4K7 J 0W25
10 1144	R.77	RESISTOR CF 4K7 J 0W25

ITEM NO.	SIT.	DESCRIPTION
10 1134	R.78	RESISTOR CF 680E J 0W25
10 1124	R.79	RESISTOR CF 100E J 0W25
10 1128	R.80	RESISTOR CF 220E J 0W25
10 1128	R.81	RESISTOR CF 220E J 0W25
10 1137	R.82	RESISTOR CF 1K2 J 0W25
10 1136	R.83	RESISTOR CF 1K J 0W25
10 1136	R.84	RESISTOR CF 1K J 0W25
10 1148	R.90	RESISTOR CF 10K J 0W25
10 1148	R.91	RESISTOR CF 10K J 0W25
10 1148	R.92	RESISTOR CF 10K J 0W25
10 1148	R.93	RESISTOR CF 10K J 0W25
10 1144	R.94	RESISTOR CF 4K7 J 0W25
10 1148	R.95	RESISTOR CF 10K J 0W25
10 1136	R.96	RESISTOR CF 1K J 0W25
10 1150	R.97	RESISTOR CF 15K J 0W25
10 1142	R.98	RESISTOR CF 3K3 J 0W25
10 1164	R.99	RESISTOR CF 220K J 0W25
10 1124	R150	RESISTOR CF 100E J 0W25
10 1246	R151	RESISTOR CF 6K8 J 0W50
10 1246	R152	RESISTOR CF 6K8 J 0W50
10 11369	R153	RESISTOR CFFUL 1K J 0W25
10 1134	R154	RESISTOR CF 680E J 0W25
10 1150	R155	RESISTOR CF 15K J 0W25
10 1136	R157	RESISTOR CF 1K J 0W25
10 3158	R159	RESISTOR MO 68K J 0W70
10 1124	R160	RESISTOR CF 100E J 0W25
10 1246	R161	RESISTOR CF 6K8 J 0W50
10 1246	R162	RESISTOR CF 6K8 J 0W50
10 11369	R163	RESISTOR CFFUL 1K J 0W25
10 1134	R164	RESISTOR CF 680E J 0W25
10 1150	R165	RESISTOR CF 15K J 0W25
10 1136	R167	RESISTOR CF 1K J 0W25
10 3158	R169	RESISTOR MO 68K J 0W70
10 1124	R170	RESISTOR CF 100E J 0W25
10 1246	R171	RESISTOR CF 6K8 J 0W50
10 1246	R172	RESISTOR CF 6K8 J 0W50
10 11369	R173	RESISTOR CFFUL 1K J 0W25
10 1134	R174	RESISTOR CF 680E J 0W25
10 1150	R175	RESISTOR CF 15K J 0W25
10 1136	R177	RESISTOR CF 1K J 0W25
10 3158	R179	RESISTOR MO 68K J 0W70
10 1128	R180	RESISTOR CF 220E J 0W25
10 1233	R182	RESISTOR CF 560E J 0W50
10 1133	R184	RESISTOR CF 560E J 0W25
10 1133	R185	RESISTOR CF 560E J 0W25
10 1132	R186	RESISTOR CF 470E J 0W25
30 6816	XT.1	X-TAL 8,867 238 MHZ
30 6849	XT.2	X-TAL 7,159 090 MHZ PCM 5MM
76 13688S		UN.DEC Q BLMS PCD40
31 3251	001.	CONNECTOR PIN MOBTE D0,8WIRE
31 3578	002.	CONNECTOR MT MOBTE P 4 7,5
31 35866	003.	CONNECTOR MT MOBTE P 7 2,5
30 2061	004.	COIL CAN 10X10X12
31 3584	005.	CONNECTOR MT MOBTE P 2 2,5
31 33921	006.	CONNECTOR JUMP F TE P 2 2,5
80 1001	007.	SCREENING DEC QUAD
31 32535	008.	CONNECTOR IC FOBTE P28 15
34 81147	1000	JUMPER INSULATED M 37,5 MM

ITEM NO.	SIT.	DESCRIPTION
11 2774	C..1	CAPACITOR CE MI 100K U5 63
13 1621	D..1	DIODE 1N4148 SWITCH
13 1621	D..2	DIODE 1N4148 SWITCH
13 1628	D..3	DIODE BAW62 SWITCH
13 1628	D..4	DIODE BAW62 SWITCH
13 1628	D..5	DIODE BAW62 SWITCH
13 2779	I..2	INTEGRATED CIRCUIT 3505 TDA
71 6287	PC..	PC 40 DEC QUAD BLMS 7613688S
13 14182	Q..1	TRANSISTOR BC559C,BC309C
13 14182	Q..2	TRANSISTOR BC559C,BC309C
13 14182	Q..3	TRANSISTOR BC559C,BC309C
13 14182	Q..4	TRANSISTOR BC559C,BC309C
13 1411	Q..5	TRANSISTOR BC549C,BC239C
13 1411	Q..6	TRANSISTOR BC549C,BC239C

ITEM NO.	SIT.	DESCRIPTION
10 1169	R..1	RESISTOR CF 560K J 0W25
10 1169	R..2	RESISTOR CF 560K J 0W25
10 1161	R..3	RESISTOR CF 120K J 0W25
10 1161	R..4	RESISTOR CF 120K J 0W25
10 1168	R..5	RESISTOR CF 470K J 0W25
10 1146	R..6	RESISTOR CF 6K8 J 0W25
10 1142	R..7	RESISTOR CF 3K3 J 0W25
10 1139	R..8	RESISTOR CF 1K8 J 0W25
10 1167	R..9	RESISTOR CF 390K J 0W25
10 1132	R.10	RESISTOR CF 470E J 0W25
10 1170	R.11	RESISTOR CF 680K J 0W25
10 1168	R.12	RESISTOR CF 470K J 0W25
10 1172	R.13	RESISTOR CF 1M J 0W25
10 1172	R.14	RESISTOR CF 1M J 0W25
10 1172	R.15	RESISTOR CF 1M J 0W25
10 1151	R.16	RESISTOR CF 18K J 0W25
31 3253	001.	CONNECTOR IC FOBTE P28 15
31 3552	002.	CONNECTOR ICINT MOBTE P28 15

Zie afregelprocedure QUAD DECODER 76 1368

16. INSTELLING GRIJSSCHAAL (CUT-OFF)

Belangrijk: De grijsschaalinstelling met P150/ P160 en P170 is slechts mogelijk en noodzakelijk wanneer de MONITOR in de RGB-MODE werkt.

Instelling:

- Draai de potentiometer P150/P160 en P170 volledig op minimum.
- Regel door middel van de afstandsbediening de kleursaturatie op minimum en de helderheid en het kontrast op de helft.
- Regel vervolgens de drie CUT-OFF potentiometers voor een neutraal grijs beeld.

Opgelet: één van de instelpotentiometers moet in de minimum positie blijven.

Voir procédure d'alignement 'DECODEUR QUAD 76 1368

16. REGLAGE DE L'ECHELLE DE GRIS (CUT-OFF)

Important: Le réglage mentionné n'est que possible et nécessaire au cas que le MONITEUR fonctionne en MODE RVB.

Alignement:

- Mettre les potentiomètres P150/P160 et P170 à leur position minimum.
- Régler à l'aide de la telecommande la saturation des couleurs au minimum et le contraste et la luminosité au niveau moyenne.
- Ajuster les trois potentiomètres de sorte que la reproduction de l'image soit un gris neutre.

Attention: un des trois potentiomètres doit rester dans sa position minimum.

See adjustment procedure QUAD DECODER 76 1368

Siehe Einstellungsverfahren QUAD DECODER 76 1368

16. GREY SCALE ADJUSTMENT (CUT-OFF)

Important: The adjustment of the grey scale with P150/P160 and P170 is only possible and necessary when the MONITOR operates in the RGB-MODE.

Adjustment:

- Turn the potentiometers P150/P160 and P170 to the minimum position.
- Adjust by means of the remote control the Colour saturation to minimum and the Brightness and the Contrast to normal level.
- Adjust the three CUT-OFF potentiometers for a neutral gray picture display.

Attention: Ensure that one of the three CUT-OFF controls remains in its minimum position.

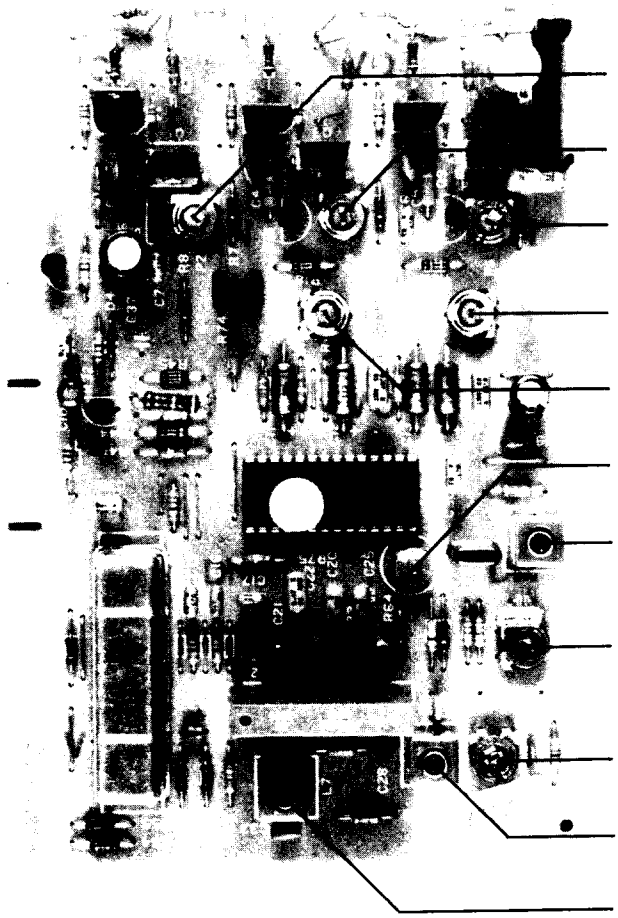
16. WEISSEINSTELLUNG (CUT-OFF)

Wichtig: Die Weisseinstellung mit P150/P160 und P170 ist nur möglich und notwendig wenn der MONITOR in der RGB-MODE funktioniert.

Einstellung:

- Potentiometer P150/P160 und P170 auf Minimum einstellen.
- Farbkontrastregler in Nullstellung und Helligkeit und Kontrast auf normale Lichtstärke bringen.
- Die 3 CUT-OFF Potentiometer so einstellen, dass ein neutrales graufarbig Bild bekommen wird.

Achtung: Achten sie darauf , dass ein der 3 Potentiometer auf Minimum bleibt.


P2 GAIN RED
P4 GAIN GREEN
P6 GAIN BLUE
P7 MAX CONTRAST
P8 MAX SATURATION
C26 X-TAL
L6 CHROMA FILTER
P10 PHASE ADJUSTMENT
P9 AMPLITUDE CORRECTION
L5 DELAY ADJUSTMENT
L7 CHROMA REJECTOR

ITEM NO.	SIT.	DESCRIPTION
11 1406	C..1	CAPACITOR ELSN 10M T 250
11 4132	C..2	CAPACITOR POMEFF 100K K 250
11 2831	C..3	CAPACITOR CE DI 3K3 S 400
11 2831	C..4	CAPACITOR CE DI 3K3 S 400
11 2831	C..5	CAPACITOR CE DI 3K3 S 400
11 2774	C..6	CAPACITOR CE MI 100K U5 63
11 2774	C..7	CAPACITOR CE MI 100K U5 63
11 2774	C..8	CAPACITOR CE MI 100K U5 63
11 1550	C.10	CAPACITOR ELPRMI 4M7 M5 50
11 11565	C.11	CAPACITOR ELAX 10M Z 25
11 11565	C.12	CAPACITOR ELAX 10M Z 25
11 11565	C.13	CAPACITOR ELAX 10M Z 25
11 1184	C.14	CAPACITOR ELAX 4M7 Z 40
11 3724	C.15	CAPACITOR POME 100K K5 63
11 3724	C.16	CAPACITOR POME 100K K5 63
11 3724	C.17	CAPACITOR POME 100K K5 63
11 3732	C.18	CAPACITOR POME 470K K5 63
11 3730	C.19	CAPACITOR POME 330K K5 63
11 3732	C.20	CAPACITOR POME 470K K5 63
11 1550	C.21	CAPACITOR ELPRMI 4M7 M5 50
11 3732	C.22	CAPACITOR POME 470K K5 63
11 1548	C.23	CAPACITOR ELPRMI 2M2 M5 50
11 3726	C.24	CAPACITOR POME 150K K5 63
11 3726	C.25	CAPACITOR POME 150K K5 63
11 7009	C.26	CAPACITOR TRIM 1,8-22P 160
11 2774	C.27	CAPACITOR CE MI 100K U5 63
11 2763	C.28	CAPACITOR CE MI 10K U5 63
11 2763	C.29	CAPACITOR CE MI 10K U5 63
11 2774	C.30	CAPACITOR CE MI 100K U5 63
11 1466	C.31	CAPACITOR ELPR 100M Z5 16
11 2364	C.32	CAPACITOR N750MI 150P J5 63
11 2366	C.33	CAPACITOR N750MI 220P J5 63
11 2240	C.34	CAPACITOR NPO MI 68P J5 63
11 37161	C.35	CAPACITOR POME 22K K5 100
11 1467	C.36	CAPACITOR ELPR 220M Z5 16
13 1628	D..1	DIODE BAW62 SWITCH
13 1628	D..2	DIODE BAW62 SWITCH
13 1628	D..3	DIODE BAW62 SWITCH
13 1621	D..4	DIODE 1N4148 SWITCH
13 2786	I..1	INTEGRATED CIRCUIT 3562A TDA
30 6024	L..4	CHOKE RA NS 10 UH
77 4211	L..5	COIL N56 K5 D0,125 PHASE
77 4212	L..6	COIL N40 C5 D0,125PALREC
77 4212	L..7	COIL N40 C5 D0,125PALREC
10 6105	P..2	TRIMPOT CAMH 2K2 M 0W05
10 6105	P..4	TRIMPOT CAMH 2K2 M 0W05
10 6105	P..6	TRIMPOT CAMH 2K2 M 0W05
10 6109	P..7	TRIMPOT CAMH 47K M 0W05
10 6109	P..8	TRIMPOT CAMH 47K M 0W05
10 6104	P..9	TRIMPOT CAMH 1K M 0W05
10 6104	P.10	TRIMPOT CAMH 1K M 0W05
71 6224	PC..	PC 40 DEC PAL+RGB ABL 761369
13 25146	Q..1	TRANSISTOR BF869
13 25146	Q..2	TRANSISTOR BF869
13 25146	Q..3	TRANSISTOR BF869
13 25146	Q..4	TRANSISTOR BF869
13 25146	Q..5	TRANSISTOR BF869
13 25146	Q..6	TRANSISTOR BF869
13 1428	Q..7	TRANSISTOR BC548C,BC238C
13 1428	Q..8	TRANSISTOR BC548C,BC238C
13 1428	Q..9	TRANSISTOR BC548C,BC238C
13 14181	Q.10	TRANSISTOR BC559B,BC309B

ITEM NO.	SIT.	DESCRIPTION
13 1411	Q.11	TRANSISTOR BC549C,BC239C
10 1128	R..1	RESISTOR CF 220E J 0W25
10 1246	R..2	RESISTOR CF 6K8 J 0W50
10 1246	R..3	RESISTOR CF 6K8 J 0W50
10 11369	R..4	RESISTOR CFFUL 1K J 0W25
10 1133	R..5	RESISTOR CF 560E J 0W25
10 3158	R..6	RESISTOR MO 68K J 0W70
10 1137	R..7	RESISTOR CF 1K2 J 0W25
10 1140	R..8	RESISTOR CF 2K2 J 0W25
10 1246	R.12	RESISTOR CF 6K8 J 0W50
10 1246	R.13	RESISTOR CF 6K8 J 0W50
10 11369	R.14	RESISTOR CFFUL 1K J 0W25
10 1133	R.15	RESISTOR CF 560E J 0W25
10 3158	R.16	RESISTOR MO 68K J 0W70
10 1137	R.17	RESISTOR CF 1K2 J 0W25
10 1141	R.18	RESISTOR CF 2K7 J 0W25
10 1246	R.22	RESISTOR CF 6K8 J 0W50
10 1246	R.23	RESISTOR CF 6K8 J 0W50
10 11369	R.24	RESISTOR CFFUL 1K J 0W25
10 1133	R.25	RESISTOR CF 560E J 0W25
10 3158	R.26	RESISTOR MO 68K J 0W70
10 1137	R.27	RESISTOR CF 1K2 J 0W25
10 1141	R.28	RESISTOR CF 2K7 J 0W25
10 1134	R.30	RESISTOR CF 680E J 0W25
10 1135	R.31	RESISTOR CF 820E J 0W25
10 1125	R.32	RESISTOR CF 120E J 0W25
10 1124	R.40	RESISTOR CF 100E J 0W25
10 1155	R.41	RESISTOR CF 39K J 0W25
10 1154	R.42	RESISTOR CF 33K J 0W25
10 1165	R.43	RESISTOR CF 270K J 0W25
10 1152	R.44	RESISTOR CF 22K J 0W25
10 1140	R.45	RESISTOR CF 2K2 J 0W25
10 1158	R.46	RESISTOR CF 68K J 0W25
10 1155	R.48	RESISTOR CF 39K J 0W25
10 1159	R.49	RESISTOR CF 82K J 0W25
10 11231	R.50	RESISTOR CF 75E J 0W25
10 11231	R.51	RESISTOR CF 75E J 0W25
10 11231	R.52	RESISTOR CF 75E J 0W25
10 11231	R.53	RESISTOR CF 75E J 0W25
10 1139	R.54	RESISTOR CF 1K8 J 0W25
10 1141	R.55	RESISTOR CF 2K7 J 0W25
10 1144	R.56	RESISTOR CF 4K7 J 0W25
10 1135	R.57	RESISTOR CF 820E J 0W25
10 1122	R.58	RESISTOR CF 68E J 0W25
10 12169	R.59	RESISTOR CFFUL 22E J 0W50
10 1134	R.60	RESISTOR CF 680E J 0W25
10 1136	R.61	RESISTOR CF 1K J 0W25
10 1136	R.62	RESISTOR CF 1K J 0W25
10 1136	R.63	RESISTOR CF 1K J 0W25
10 1139	R.64	RESISTOR CF 1K8 J 0W25
10 1131	R.65	RESISTOR CF 390E J 0W25
10 1128	R.66	RESISTOR CF 220E J 0W25
10 1128	R.67	RESISTOR CF 220E J 0W25
10 1137	R.68	RESISTOR CF 1K2 J 0W25
10 1159	R.74	RESISTOR CF 82K J 0W25
10 1155	R.75	RESISTOR CF 39K J 0W25
10 1146	R.76	RESISTOR CF 6K8 J 0W25
10 1146	R.78	RESISTOR CF 6K8 J 0W25
30 6816	XTAL	X-TAL 8,867 238 MHZ
31 3578	001.	CONNECTOR MT MOBTE P 4 7,5
30 6511	002.	DELAY LINE M P/S DL710,DL711
30 6525	003.	DELAY LINE MS RGB 0,390USEC
30 2061	004.	COIL CAN 10X10X12
31 3584	005.	CONNECTOR MT MOBTE P 2 2,5

Ontvang het elektronisch PAL kleurentest-beeld (foto 1).

1. REFERENTIE OSCILLATOR (C26)

- verbind pin 5 van IC1 via een weerstand van 470 Ohm met de voedingsspanning (+12V).
- leg een draadbrug tussen pin 24 en pin 25 van IC 1.
- regel de trimmer C26 voor kleurnulzweving.
- neem de kortsluiting en de weerstand van 470 Ohm weg.

2. CHROMA REJECTOR (L7) (foto 2)

- sluit de oscilloscoop aan op pin 8 van IC1.
- regel de spoel L7 voor een minimum aan chromasignaal in het luminantiesignaal (Y).

3. CHROMA FILTER (L6) (foto 3)

- sluit de oscilloscoop aan op pin 4 van IC1.
- regel de spoel L6 voor max. chromasignaal.

4. LOOPTIJDDEMODULATOR

- FASE-instelling (L5) (foto 4)

  - sluit de oscilloscoop aan op de weerstand R25 "B out" (zijde plug D).
  - regel de spoel L5 voor gelijke signalen.

- AMPLITUDE instelling (P9)

  1. met de oscilloscoop (foto 5)

     - sluit de oscilloscoop aan op weerstand R25 "B out" (zijde plug D).
     - regel de potentiometer P9 zoals aangeduid op de foto.

  2. benaderende methode

     regel de potentiometer P9 zodanig dat er geen lijnstructuur meer te te zien is in de aangeduide stroken A (foto 1).

5. BURST FASE INSTELLING (P10)

1. met de oscilloscoop (foto 6)

   - sluit de oscilloscoop aan op weerstand R25 "B out" (zijde plug D).
   - regel de potentiometer P10 zoals aangeduid op de foto.

2. benaderende methode

   - regel met de afstandsbediening de kleursaturatie op maximum.
   - regel P10 totdat in de stroken A geen verkleuring meer optreedt.

6. MAX. SATURATIE (P8) (foto 7)

- regel met de afstandsbediening de kleursaturatie voor een spanning van + 3,33 V op de klem 3 van de decoder.
- sluit de oscilloscoop aan op de weerstand R25 "B out" (zijde plug D).
- regel P8 zodanig dat de blauwsignalen op hetzelfde niveau liggen.

Schakel de straalstroombegrenzing uit door diode D4 kort te sluiten.

7. MAX. KONTRAST (P7) (foto 8)

- regel met de afstandsbediening helderheid en kleursaturatie op minimum en kontrast op maximum.
- sluit de oscilloscoop aan op pin 17 (Blue) van IC1.
- regel potentiometer P7 voor een amplitude van het signaal van 5,2 Vpp tussen zwart- en witniveau.

8. VERSTERKINGSREGELING "GAIN" (P2 - P4 - P6)

- regel d.m.v. de afstandsbediening kontrast op maximum, kleursaturatie en helderheid op minimum.
- regel de potentiometers "GAIN" P2 (rood), P4 (groen) en P6 (blauw) zodanig dat op de respectievelijke kleuruitgang van de decoder (plug D) de volgende amplitudewaarde gemeten wordt (tussen wit- en zwartniveau, bij een video inputsignaal van 1 Vpp) :

Beeldbuis	Rood	Groen	Blauw
Philips-ITT	112 V	110 V	93 V
Videocolor	115 V	110 V	103 V

Recevoir une mire électronique de couleurs PAL (photo 1).

1. OSCILLATEUR DE REFERENCE (C26)

- raccorder la cosse 5 de l'IC 1 à la tension d'alimentation (+12V) via une résistance de 470 Ohm.
- court-circuiter les cosses 24 et 25 de 1' IC 1.
- régler C26 afin d'obtenir la synchronisation des couleurs sur l'écran.
- ôter le court-circuit et la résistance de 470 Ohm.

2. REJECTEUR CHROMA (L7) (photo 2)

- brancher l'oscilloscope à la cosse 8 de 1'IC 1.
- ajuster le noyau de L7 afin d'obtenir un minimum du signal chroma dans le signal de luminance (Y).

3. FILTRE CHROMA (L6) (photo 3)

- brancher l'oscilloscope à la cosse 4 de 1'IC 1.
- ajuster L6 afin d'obtenir un maximum du signal chroma.

4. DECODEUR A TEMPS DE PROPAGATION

- réglage de la PHASE (L5) (photo 4)
  - brancher l'oscilloscope à la résistance R25 "B out" (coté fiche D).
  - ajuster la bobine L5 de sorte que les signaux soient identiques.
- réglage de l'AMPLITUDE (P9)
  1. avec un oscilloscope (photo 5)
     - brancher l'oscilloscope à la résistance R25 "B out" (coté fiche D).
     - régler le potentiomètre P9 comme illustré sur la photo.
  2. méthode approximative
     - régler le potentiomètre de sorte qu' il n'y a pas une structure de lignes visible dans les bandes A (stores Vénitiens) (photo 1).

5. REGLAGE DE LA PHASE DU BURST (P10)

1. avec un oscilloscope (photo 6)
   - brancher l'oscilloscope à la résistance R25 "B out" (coté fiche D).
   - régler le potentiomètre P10 comme illustré sur la photo.

2. méthode approximative
   - régler, a l'aide de la télécommande, la saturation des couleurs au niveau maximum.
   - régler le potentiomètre P10 de sorte qu' il n'y a pas de décoloration visible dans les bandes A (photo 1).

6. MAX. SATURATION (P8) (photo 7)

- régler, à l'aide de la télécommande, le contraste afin d'obtenir + 3,33 V à la borne 3 du décodeur.
- brancher l'oscilloscope à la résistance R25 "B out" (côté fiche D).
- ajuster P8, afin que les signaux du bleu se trouvent au même niveau.

Mettre le circuit de la limitation du courant de faisceau hors fonction en court-circuitant la diode D4.

7. LE CONTRASTE MAXIMUM (P7) (photo 8)

- régler à l'aide de la télécommande le contraste au maximum et la saturation des couleurs et la luminosité au minimum.
- brancher l'oscilloscope à la cosse 17 (bleu) de 1'IC 1.
- régler le potentiométre P7, afin d'obtenir une amplitude du signal de 5,2 Vpp entre le niveau du blanc et le niveau du noir.

8. AMPLIFICATION "GAIN" (P2 - P4 - P6)

- régler, à l'aide de la télécommande, la saturation des couleurs et la luminosité au minimum et le contraste au maximum.
- régler les potentiomètres P2 (rouge), P4 (verte) et P6 (bleu) pour que 1' amplitude du signal de couleur (entre le niveau blanc et le niveau noir et avec un signal vidéo de l'ampli IF de 1 Vpp) à la sortie respective corresponde à la valeur indiquée ci-dessous :

Tube	Rouge	Verte	Bleu
Philips-ITT	112 V	110 V	93 V
Videocolor	115 V	110 V	103 V

Receive an electronic PAL colour test pattern (photo 1).

1. REFERENCE OSCILLATOR (C26)

- connect pin 5 of IC 1 via a resistor of 470 Ohm to the supply voltage (+12 V).
- connect pin 24 with pin 25 of IC 1.
- adjust the trimming capacitor C26 for colour zero beat.
- remove the short-circuit and the 470 Ohm resistor.

2. CHROMA REJECTOR (L7) (photo 2)

- connect the oscilloscope to the edge contact 8 of IC 1.
- adjust the core of coil L7 for a minimum of chroma in the luminance signal (Y).

3. CHROMA FILTER (L6) (photo 3)

- connect the oscilloscope to the edge contact 4 of IC 1.
- adjust the core of coil L6 for maximum chroma signal.

4. DELAY LINE MATRIX

- PHASE adjustment (L5) (photo 4)
  - connect the oscilloscope to resistor R25 "B out" (side of plug D).
  - adjust the coil L5 for identical signals.

- AMPLITUDE adjustment (P9)

  1. using an oscilloscope (photo 5)
     - connect the oscilloscope to resistor R25 "B out" (side of plug D).
     - adjust the potentiometer P9 as shown in the photo.

  2. approximatively
     - adjust the potentiometer P9 to eliminate the line structure in indicated strips A (photo 1).

5. BURST PHASE ADJUSTMENT (P10)

  1. using an oscilloscope (photo 6)
     - connect the oscilloscope to "B out" using resistor R25 (side of plug D).
     - adjust the potentiometer P10 as shown in the photo.

  2. approximatively
     - adjust colour saturation with the remote control to maximum.
     - adjust the potentiometer P10 until the discoloration disappears in the strips A (photo 1).

6. MAX. SATURATION (P8) (photo 7)

- adjust colour saturation with the remote control for a + 3,33 V reading on the edge contact 3 of the decoder module.
- connect the oscilloscope to the Blue output of the RGB amplifier (plug D).
- adjust P8 so that the B-signals are on the same level.

Switch off the beam current limiter by short-circuiting diode D4.

7. MAX. CONTRAST (P7) (photo 8)

- adjust by means of the remote control the contrast to maximum, colour saturation and brightness to minimum.
- connect the oscilloscope to the edge contact 17 (Blue) of IC 1.
- adjust potentiometer P7 for a signal amplitude of 5,2 Vpp between black and white level.

8. RGB AMPLIFICATION (P2 - P4 - P6)

- adjust by means of the remote control the contrast to maximum, colour saturation and brightness to minimum.
- adjust the potentiometers P2 (red), P4 (green) and P6 (blue) until the amplitude value of the colour signal on the respective output between black and white level (with a video input signal from the IF amplifier of 1 Vpp) corresponds to the below indicated values :

Tube	Red	Green	Blue
Philips-ITT	112 V	110 V	93 V
Videocolor	115 V	110 V	103 V

Empfangen Sie ein elektronisches PAL-Farbtestbild (Foto 1).

1. REFERENZOSZILLATOR (C26)

- verbinden Sie den IC 1 Kontakt 5 via einem Widerstand vom 470 Ohm mit der Speisespannung.
- IC 1 Kontakte 24 und 25 durch eine Drahtbrücke verbinden.
- stellen Sie C26 für Farbschwebungsnull ein.
- entfernen Sie den Kurzschluss und den Widerstand.

2. CHROMASPERRE (L7) (Foto 2)

- verbinden Sie den Oszillograpf mit dem IC 1 Kontakt 8.
- Spule L7 so abgleichen, dass einen minimalen Chromasignal im Leuchtdichtesignal (Y) bekommen wird.

3. CHROMAFILTER (L6) (Foto 3)

- schliessen Sie den Oszillograph an den IC 1 Kontakt 4 an.
- Spule L6 auf maximalen Chromasignal abgleichen.

4. LAUFZEITDEMODULATOR

- PHASE-Abgleich (L5) (Foto 4)

  - schliessen Sie einen Oszillograph an den Widerstand R25 "B out" an (Seite Buchse D).

  - die Spule L5 für gleiche Signale abgleichen.

- AMPLITUDE-Abgleich (P9)

  1) mit dem Oszillograph (Foto 5)
     - Tastkopf des Oszillographen an den Widerstand R25 "B out" (Seite Buchse D) anschliessen.
     - den Potentiometer P9 abgleichen, wie auf dem Foto angedeutet ist.

  2) Annäherungsmethode
     den Potentiometer P9 so abgleichen, dass keine Liniestruktur in den angedeuten Streifen A merkbar ist (Foto 1).

5. BURST PHASE-ABGLEICH (P10) (Foto 6)

- mit dem Oszillograph (Foto 6)
  - Tastkopf des Oszillographen an den Widerstand R25 "B out" (Seite Buchse D) anschliessen.
  - den Potentiometer P10 so abgleichen, wie auf dem Foto angedeutet ist.

- Annäherungsmethode
  - stellen Sie mit der Fernbedienung die Farbsättigung auf Maximum ein.
  - den Potentiometer P10 abgleichen bis die Streifen A Farblos werden.

MAX. SATTIGUNG (P8) (Foto 7)

- stellen Sie mit der Fernbedienung die Farbsättigung für eine Spannung vom + 3,33 V auf die Klemme 3 des Dekoders ein.
- Tastkopf des Oszillographen an den Widerstand R25 "B out" (Seite Buchse D) anschliessen.
- P8 abgleichen, so dass der Blausignale auf gleichem Niveau legen.

Für die zwei folgenden Reglungen soll die Strahlstrombegrenzung abgeschaltet werden durch Diode D4 kurzzuschliessen.

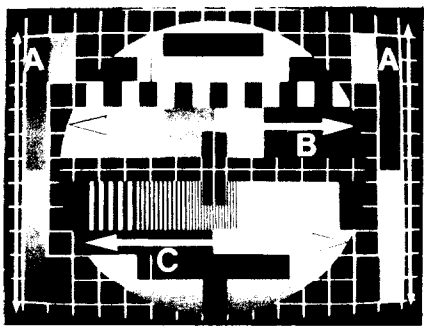
7. MAX. KONTRAST (P7) (Foto 8)

- stellen Sie mit der Fernbedienung die Helligkeit und die Farbsättigung auf Minimum und den Kontrast auf Maximum ein.
- Tastkopf des Oszillographen an die Buchse 7 (BLau) vom IC 1 anschliessen.
- stellen Sie den Potentiometer P7 ein für eine Signalamplitude vom 5,2 Vpp zwischen dem Schwarz- und Weissniveau.

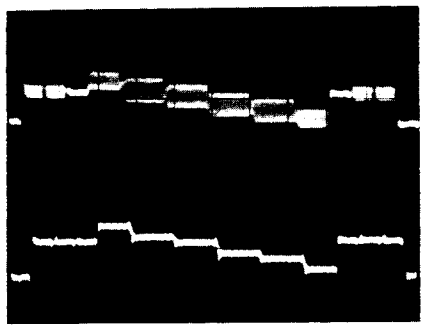
8. RGB-VERSTAERKUNG (P2 - P4 - P6)

- stellen Sie, mit der Fernbedienung, den Kontrast auf Maximum, die Helligkeit und die Farbsättigung auf Minimum.
- stellen Sie den Potentiometer P2 (für Rot), P4 (für Grün) und P6 (für Blau) ein, so dass auf die respectiven Farbausgänge des Dekoders (Buchse D) den folgenden Signalamplitudewert gemessen wird (zwischen dem Weiss- und Schwarzniveau bei einem Eingangssignal vom 1 Vpp) :

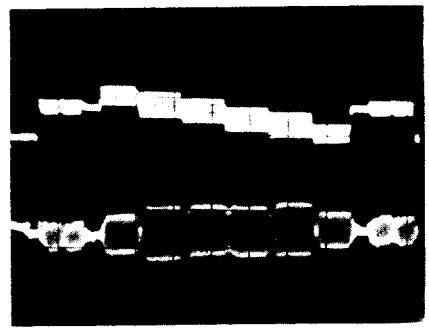
Tube	Rot	Grün	Blau
Philips-ITT	112 V	110 V	93 V
Videocolor	115 V	110 V	103 V



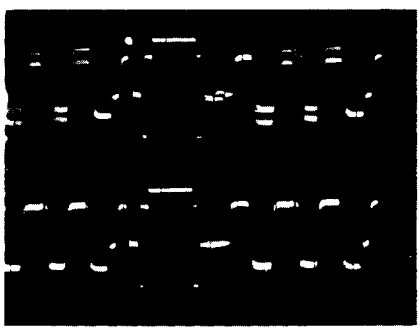
1. Electronic Testpattern
   A. Bars for Burst Phase Adjustment P10
   B. Colour bar : Oscillograms 2 to 7
   C. Greyscale : Oscillogram 8



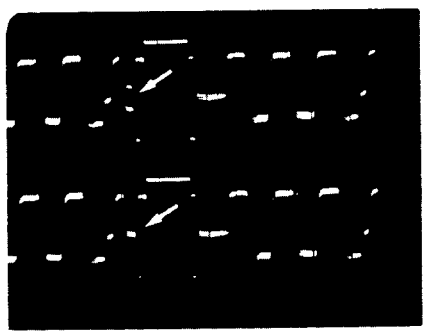
2. Alignment Chroma Rejector L7
   Pin 8 / IC1
   upper track : incorrect alignment
   lower track : correct alignment



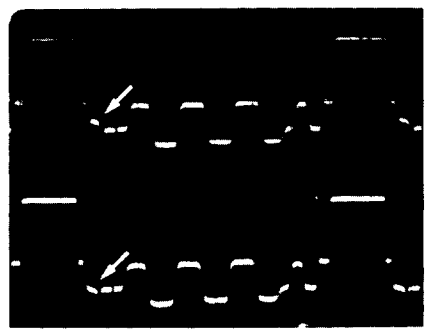
3. Alignment Maximum Chroma L6
   Pin 4 / IC1
   upper track : incoming video
   lower track : correct alignment



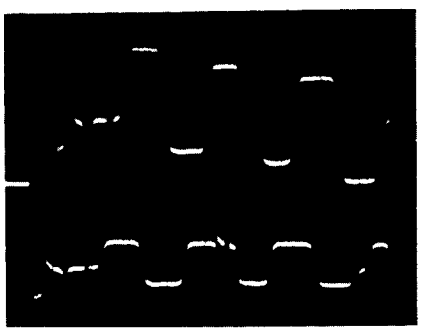
4. Alignment Delay Decoder L5
   "B out"
   upper track : incorrect alignment
   lower track : correct alignment



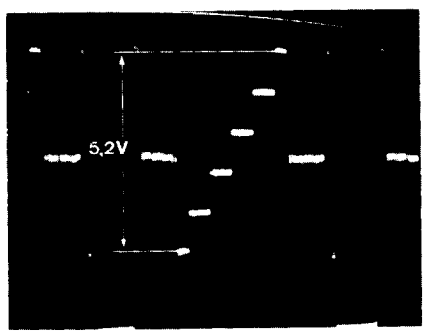
5. Alignment Delay Decoder P9
   "B out"
   upper track : incorrect alignment
   lower track : correct alignment



6. Burst Phase Adjustment P10
   "B out"
   upper track : incorrect alignment
   lower track : correct alignment



7. Maximum Saturation P8
   "B out"
   upper track : incorrect alignment
   lower track : correct alignment

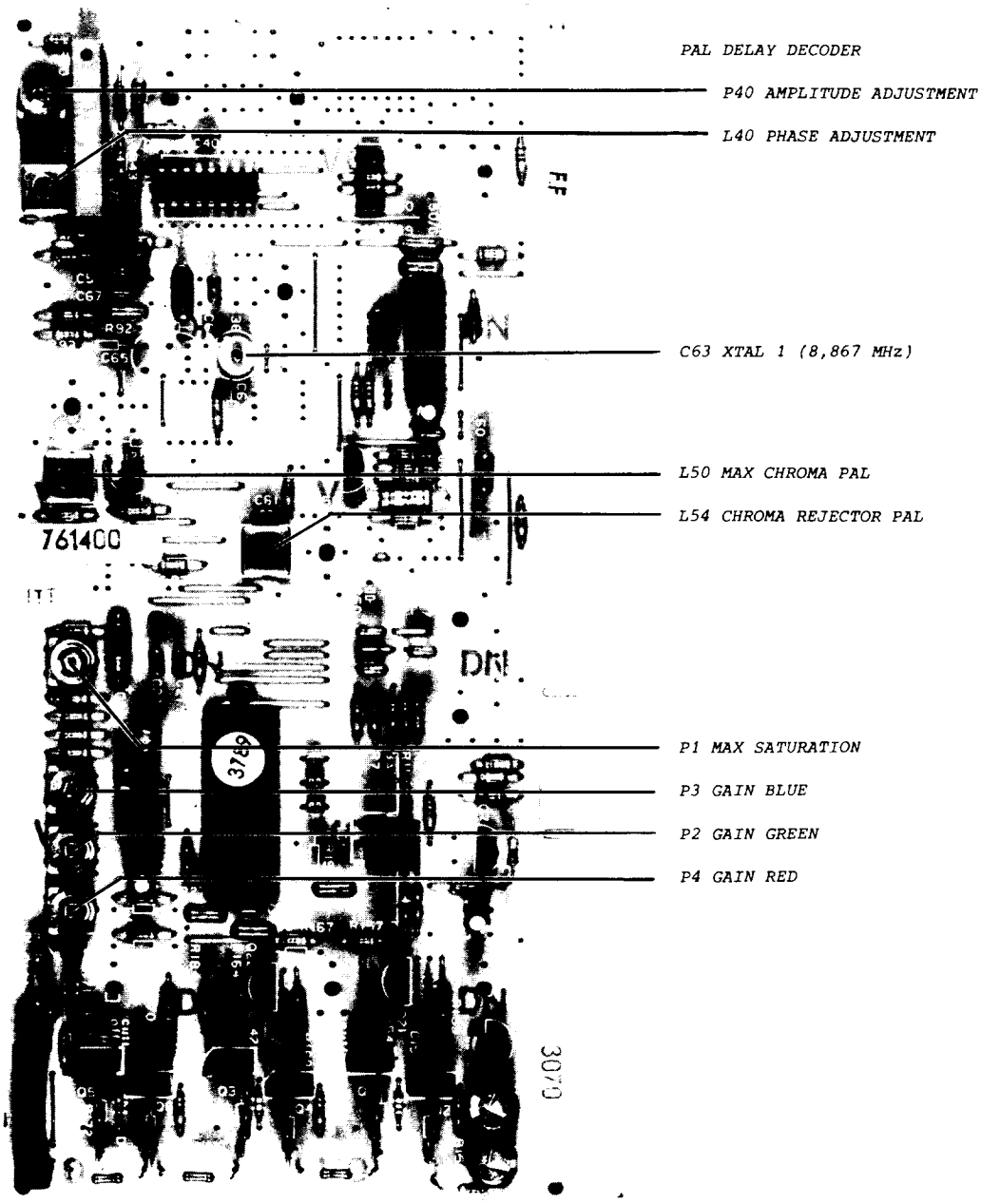


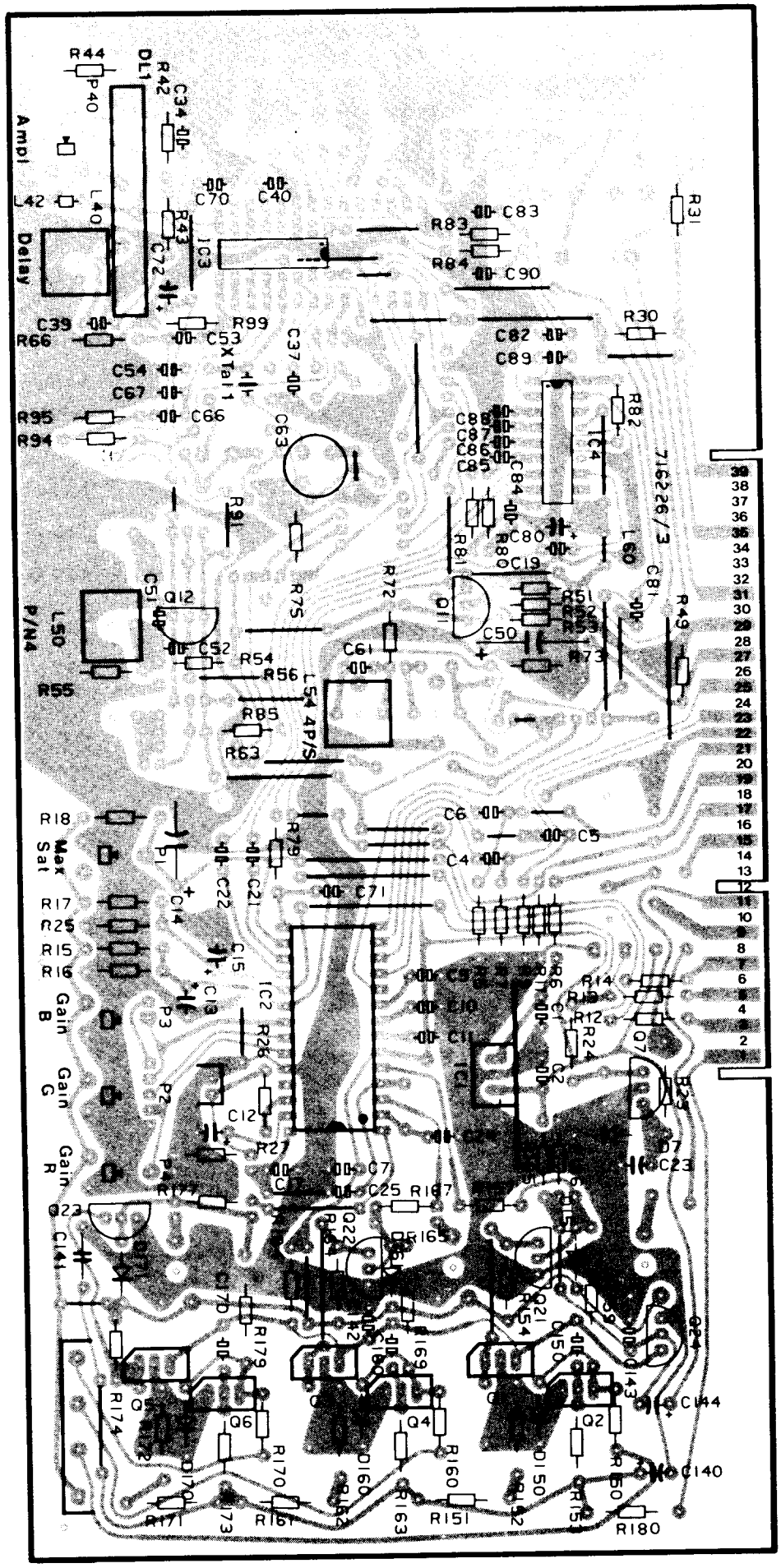
8. Maximum Contrast P7
   Pin 17 / IC1 (Blue)

76 1400 has been adjusted for ITT/Philips tubes

76 14007 doesn't have 75 ohm terminators on RGB, switchable terminators have been incorporated in the I/O module 76 11948 which HAS TO BE combined with this decoder.

76 14009 has been adjusted for Videocolor tubes





Name: PAL DECODER + RGB AMPLIFIER		Article nr: 76 1400	
Date: 05/12/86	Drawn: PG	Checked: RDF	
BARCO Electronic	Noordlaan 5 8720 Kuurne Belgium		

MODIFICATIONS RESERVED

AFREGELING VAN DE PAL DECODER 76 1400

Ontvang een electronisch PAL kleurentest-beeld (foto 1).

1. REFERENTIE OSCILLATOR (C63)

- indien geen kleur, draai aan de trimmer C63 totdat kleur bekomen wordt.
- sluit pin 11 van IC 3 (TDA 4510) kort naar massa.
- regel de trimmer C63 voor kleurnulzweving.
- neem de kortsluiting weg.

2. CHROMA REJECTOR (L54) (foto 4)

- verbind de oscilloscoop met het knooppunt R79/C19 (Y signaal).
- regel de spoel L54 voor een minimum aan chromasignaal in het luminantiesignaal (Y).

3. CHROMA FILTER (L50) (foto 3)

- sluit de oscilloscoop aan op de emitter van Q12.
- regel de spoel L50 voor max. chromasignaal.

4. LOOPTIJDDEMODULATOR (L40-P40) (foto's 5, 6)

- sluit de oscilloscoop aan op de kondensator C22 (B-Y signaal).
- regel L40 "DELAYED PHASE ADJUST" en P40 "DELAYED AMP ADJUST" zoals respectievelijk op foto 5 en 6 is weergegeven.

Schakel voor de twee volgende afregelingen de straalstroombegrenzing uit door diode D7 kort te sluiten.

5. MAX. SATURATIE (P1) (foto 2)

- sluit een voltmeter aan op klem 3 van de print.
- regel m.b.v. de afstandsbediening de kleur-saturatiespanning op klem 3 van de decoder op + 3,33 V.
- sluit de oscilloscoop aan de weerstand R150 "B out" (zijde plug D).
- regel P1 "MAX SAT" zo, dat de B-signalen op hetzelfde niveau liggen.

6. VERSTERKINGSREGELING "GAIN" (P4 - P2 - P3) (foto 7, 8)

- regel d.m.v. de afstandsbediening de kleur-saturatie op minimum, de helderheid in het midden en het kontrast op 3V, klem 5.
- regel de potentiometers "GAIN" P4 (rood), P2 (groen) en P3 (blauw) zodanig dat op de respectievelijke kleuruitgangen van de decoder (plug D) de volgende amplitudewaarde

ALIGNEMENT DU DECODEUR PAL 76 1400

Recevoir une mire électronique de couleurs PAL (photo 1).

1. OSCILLATEUR DE REFERENCE (C63)

- s'il n'y a pas des couleurs, tourner C63 jusqu'à une image colorée est obtenue.
- court-circuiter la cosse 11 du CI 3 (TDA 4510) à la masse.
- ajuster C63 pour obtenir un battement des couleurs minimum.
- ôter le court-circuit.

2. REJECTEUR CHROMA (L54) (photo 4)

- brancher l'oscilloscope au noeud R79/C19 (signal Y).
- ajuster le noyau de L54 afin d'obtenir un minimum du signal chroma dans le signal de luminance (Y).

3. FILTRE CHROMA (L50) (photo 3)

- brancher l'oscilloscope à l'émetteur de Q12.
- ajuster L50 afin d'obtenir un maximum du signal chroma.

4. DECODEUR A TEMPS DE PROPAGATION (L40 - P40) (photos 5, 6)

- brancher l'oscilloscope au condensateur C22 (signal B-Y).
- ajuster L40 "DELAYED PHASE ADJUST" et P40 "DELAYED AMPL. ADJUST" comme illustré sur les photos.

Pour les deux réglages suivants, mettre la limitation du courant de faisceau hors circuit, en court-circuitant la diode D7.

5. MAX. SATURATION (P1) (photo 2)

- brancher un voltmètre à la borne 3 du connecteur de la plaquette.
- ajuster la saturation des couleurs avec la télécommande, afin d'obtenir + 3,33 V à la borne 3.
- brancher l'oscilloscope à la résistance R150 "B out" (coté fiche D).
- ajuster P1, afin que les signaux bleus se trouvent au même niveau.

6. AMPLIFICATION "GAIN" (P4 - P2 - P3) (photos 7, 8)

- régler, à l'aide de la télécommande, la saturation des couleurs au niveau minimum, la luminosité au niveau moyenne et le contraste pour 3V à la cosse 5.
- régler les potentiomètres P4 (rouge), P2 (verte) et P3 (bleu) pourque l'amplitude du signal de couleur à la sortie respective

gemeten wordt (tussen wit- en zwartniveau, bij een video inputsignaal van 1 Vpp) :

Beeldbuis	Rood	Groen	Blauw
DCD Philips-ITT Videocolor PCD	 88 V 92 V 67 V	 85 V 87 V 64 V	 73 V 82 V 60 V

(entre le niveau blanc et le niveau noir et avec un signal vidéo de l'ampli IF de 1 Vpp) corresponde à la valeur indiquée ci-dessous:

Tube	Rouge	Verte	Bleu
DCD Philips-ITT Videocolor PCD	 88 V 92 V 67 V	 85 V 87 V 64 V	 73 V 82 V 60 V

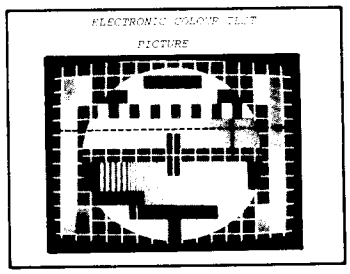


FOTO 1
Viewed VIDEO LINE for the alignment of :
- Max Saturation (R)
- Pal Delay decoder (F4) - L40
- Chroma Rejector (L54)
- Chroma Filter (L53)

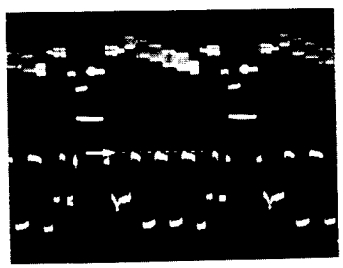


FOTO 2
MAX SATURATION (R)
Upper track: viewed VIDEO line
Lower track: BLUE output signal

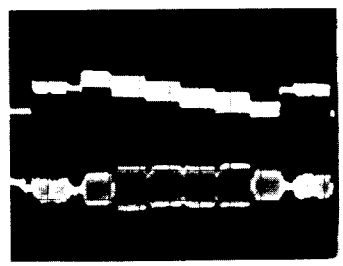


FOTO 3
CHROMA FILTER L50
Upper track: viewed VIDEO line
Lower track: max CHROMA signal

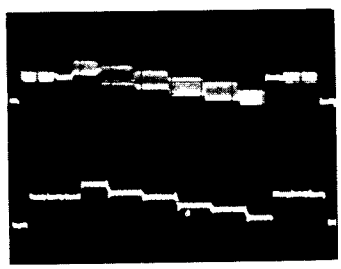


FOTO 4
CHROMA REJECTOR L54
Upper track: viewed VIDEO line
Lower track: luminance signal(Y)

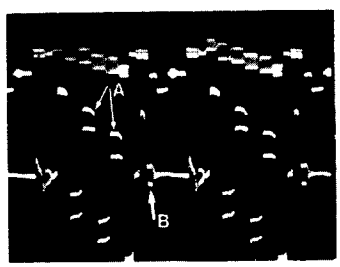


FOTO 5
ALIGNMENT OF THE PAL DELAY DECODER P40 - L40
Upper track: viewed VIDEO line
Lower track: A. incorrect PHASE setting
B. incorrect AMPLITUDE setting

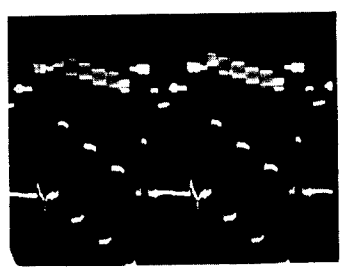


FOTO 6
Upper track: viewed VIDEO line
Lower track: correctly aligned Pal Delay Decoder

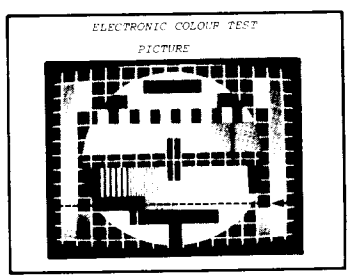


FOTO 7
Viewed VIDEO LINE for the alignement of the AMPLITUDE of the RED - GREEN - BLUE output signal

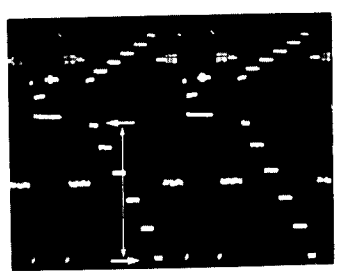


FOTO 8
Upper track: viewed VIDEO line
Lower track: amplitude of the output signal

PAL DECODER 76 1400 ALIGNMENT

Receive an electronic PAL colour test pattern (photo 1).

1. REFERENCE OSCILLATOR (C63)

- if there is no colour, adjust trimming capacitor C63 until colour is being received.
- short-circuit pin 11 of IC 3 (TDA 4510) to earth.
- adjust the trimming capacitor C63 for colour zero beat.
- remove the short-circuit.

2. CHROMA REJECTOR (L54) (photo 4)

- connect the oscilloscope to the junction R79/C19 (Y signal).
- adjust the core of coil L54 for a minimum of chroma in the luminance signal (Y).

3. CHROMA FILTER (L50) (photo 3)

- connect the oscilloscope to the emitter of Q12.
- adjust the core of coil L50 for maximum chroma signal.

4. DELAY LINE MATRIX (L40 - P40) (photos 5, 6)

- connect the oscilloscope to the capacitor C22 (B-Y signal).
- adjust L40 (DELAYED PHASE ADJUST) and P40 (DELAYED AMP. ADJUST) as shown in photos 5 and 6.

Switch off the beam current limiter for the following two adjustments by short-circuiting diode D7.

5. MAX. SATURATION (P1) (photo 2)

- connect a voltmeter to edge contact 3 of the PC board connector.
- adjust the colour saturation on the remote control for a + 3,33 V reading on the voltmeter.
- connect the oscilloscope to resistor R150 "B out" (side plug D).
- adjust P1 (MAX SAT) so that the blue-signals are on the same level.

6. RGB AMPLIFICATION (P4 - P2 - P3) (photo 7, 8)

- adjust colour saturation for minimum, brightness
- adjust the potentiometers P4 (red), P2 (green) and P3 (blue) until the amplitude value of the colour signal on the respective output, between black and white level (with a video input signal from the IF amplifier of 1 Vpp) corresponds to the below indicated values :

EINSTELLANWEISUNG DES PAL DECODERS 76 1400

Empfangen Sie ein elektronisches PAL-Farbtestbild (Foto 1).

1. REFERENZOSZILLATOR (C63)

- wenn man keine Farbe hat, drehen Sie an C63 bis man Farben hat.
- Anschluss 11 von IC 3 (TDA 4510) nach Masse kurzschliessen.
- C63 abgleichen bis sich eine Farbschwebungsnull einstellt.
- Kurzschluss entfernen.

2. CHROMASPERRE (L54) (Foto 4)

- verbinden Sie den Oszillograpf mit dem Knotenpunkt R79/C19.
- Spule L54 so abgleichen, dass Sie eine minimale Chroma-Information im Leuchtdichtesignal (Y) bekommen.

3. CHROMAFILTER (L50) (Foto 3)

- verbinden Sie den Oszillograpf mit dem Emitter von Q12.
- L50 abgleichen für Maximum Chromasignal.

4. LAUFZEITDEMODULATOR (L40-P40) (Fotos 5, 6)

- verbinden Sie den Oszillograpf mit dem Kondensator C22 (Signal B-Y).
- L40 "DELAYED PHASE ADJUST" und P40 "DELAYED AMPL. ADJUST" so abgleichen, wie auf Foto 5 und 6 wiedergegeben ist.

Für die zwei folgenden Reglungen soll die Strahlstrombegrenzung abgeschaltet werden durch Diode D7 kurzzuschliessen.

5. MAX. SATTIGUNG (P1) (Foto 2)

- gleichen Sie mit der Fernbedienung die Farbsättigung für eine Spannung vom + 3,33 V auf die Klemme 3 des Dekoders ab.
- schliessen Sie einen Oszillograpf an den Widerstand R150 "B out" an (Seite Buchse D).
- P1 abgleichen, so dass die Blausignale auf gleichem Niveau legen.

6. RGB-VERSTAERKUNG (P4 - P2 - P3) (Foto 7, 8)

- stellen Sie, mit der Fernbedienung, den Kontrast auf 3V, Klemme 5, Farbsättigung auf Minimum und die Helligkeit in den mittleren stand. P2 (für Grün) und P3 (für Blau) ein, so dass auf die respektiven Farbausgänge des Dekoders (Buchse D) den folgenden Signalamplitudewert gemessen wird (zwischen dem Weiss- und Schwarzniveau, bei einem Eingangssignal vom 1 Vpp) :

Tube	Red	Green	Blue
DCD Philips-ITT Videocolor PCD	 88 V 92 V 67 V	 85 V 87 V 64 V	 73 V 82 V 60 V

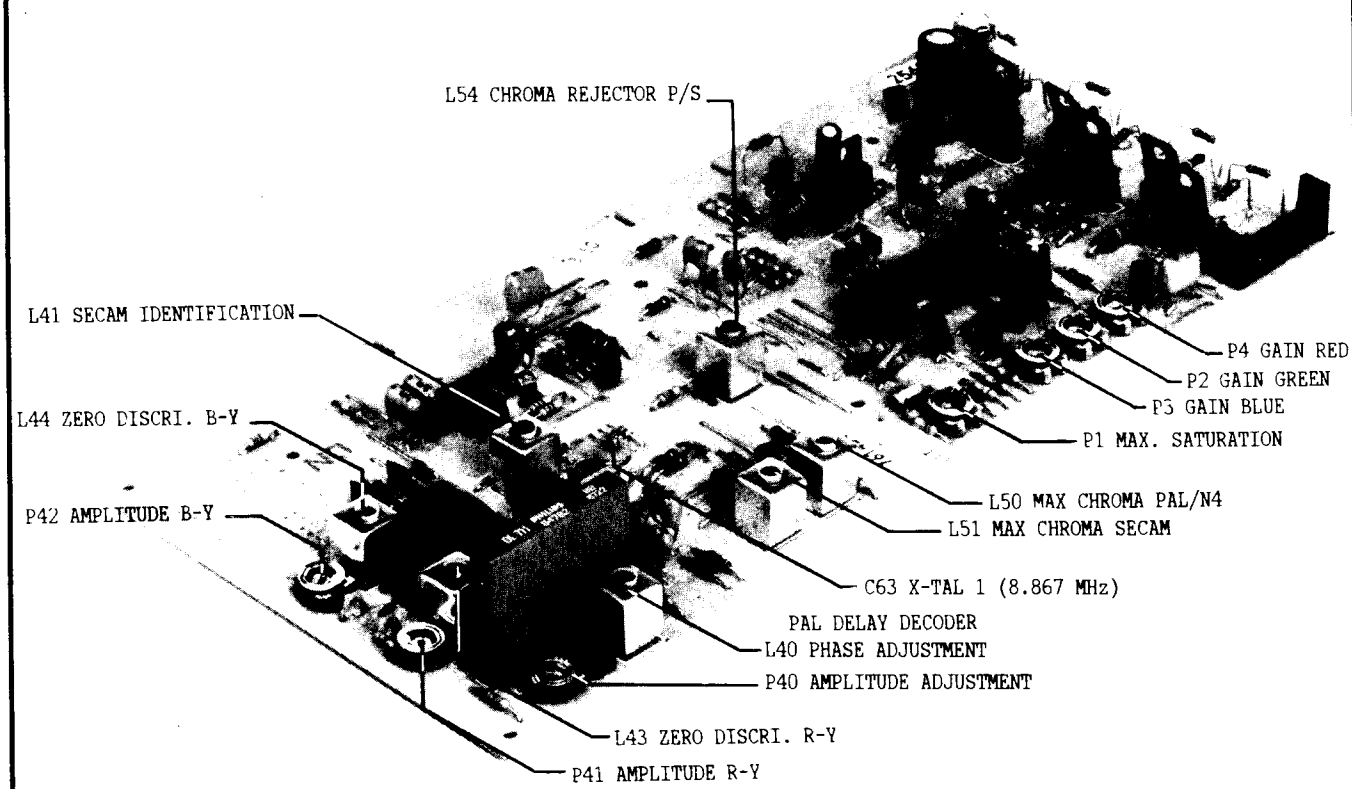
Tube	Rot	Grün	Blau
DCD Philips-ITT Videocolor PCD	 88 V 92 V 67 V	 85 V 87 V 64 V	 73 V 82 V 60 V

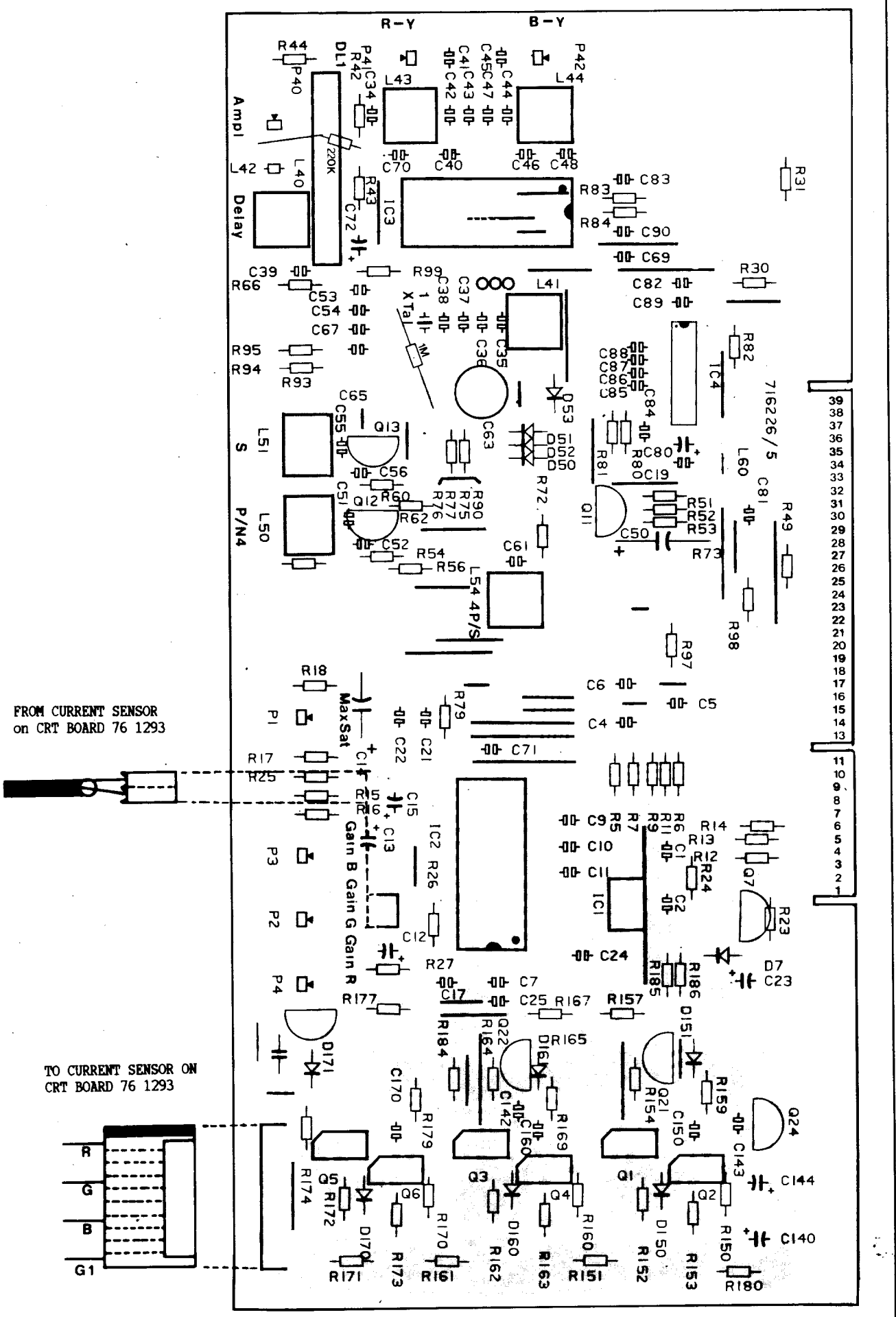
ITEM NO.	SIT.	DESCRIPTION
11 2774	C..1	CAPACITOR CE MI 100K U5 63
11 2774	C..2	CAPACITOR CE MI 100K U5 63
11 3724	C..4	CAPACITOR POME 100K K5 63
11 3724	C..5	CAPACITOR POME 100K K5 63
11 3724	C..6	CAPACITOR POME 100K K5 63
11 2774	C..7	CAPACITOR CE MI 100K U5 63
11 2770	C..9	CAPACITOR CE MI 22K U5 63
11 2770	C.10	CAPACITOR CE MI 22K U5 63
11 2770	C.11	CAPACITOR CE MI 22K U5 63
11 1511	C.12	CAPACITOR ELPRMI 33M M5 16
11 1546	C.13	CAPACITOR ELPRMI 1M M5 50
11 11841	C.14	CAPACITOR ELAX 1M T 40
11 1531	C.15	CAPACITOR ELPRMI 10M M5 35
11 3730	C.17	CAPACITOR POME 330K K5 63
11 3724	C.19	CAPACITOR POME 100K K5 63
11 37161	C.21	CAPACITOR POME 22K K5 100
11 37161	C.22	CAPACITOR POME 22K K5 100
11 1550	C.23	CAPACITOR ELPRMI 4M7 M5 50
11 3730	C.24	CAPACITOR POME 330K K5 63
11 3730	C.25	CAPACITOR POME 330K K5 63
11 37161	C.34	CAPACITOR POME 22K K5 100
11 37161	C.37	CAPACITOR POME 22K K5 100
11 2774	C.39	CAPACITOR CE MI 100K U5 63
11 2763	C.40	CAPACITOR CE MI 10K U5 63
11 11565	C.50	CAPACITOR ELAX 10M Z 25
11 2364	C.51	CAPACITOR N750MI 150P J5 63
11 2739	C.52	CAPACITOR CE MI 1K K5 63
11 2366	C.53	CAPACITOR N750MI 220P J5 63
11 3730	C.54	CAPACITOR POME 330K K5 63
11 22415	C.61	CAPACITOR NPO MI 82P J5 63
11 7001	C.63	CAPACITOR TRIM 7 -35P 160
11 3730	C.66	CAPACITOR POME 330K K5 63
11 3720	C.67	CAPACITOR POME 47K K5 63
11 3728	C.70	CAPACITOR POME 220K K5 63
11 2238	C.71	CAPACITOR NPO MI 47P G5 63
11 1510	C.72	CAPACITOR ELPRMI 22M M5 25
11 1510	C.80	CAPACITOR ELPRMI 22M M5 25
11 3730	C.81	CAPACITOR POME 330K K5 63
11 3730	C.82	CAPACITOR POME 330K K5 63
11 2242	C.83	CAPACITOR NPO MI 100P J5 63
11 2735	C.84	CAPACITOR CE MI 470P K5 63
11 2735	C.85	CAPACITOR CE MI 470P K5 63
11 2368	C.86	CAPACITOR N750MI 330P J5 63
11 22395	C.87	CAPACITOR NPO MI 56P G5 63
11 22395	C.88	CAPACITOR NPO MI 56P G5 63
11 3730	C.89	CAPACITOR POME 330K K5 63
11 2242	C.90	CAPACITOR NPO MI 100P J5 63
11 1571	C140	CAPACITOR ELPR 2M2 M5 350
11 4132	C141	CAPACITOR POMEFF 100K K 250
11 2774	C142	CAPACITOR CE MI 100K U5 63
11 2774	C143	CAPACITOR CE MI 100K U5 63
11 1478	C144	CAPACITOR ELPR 220M Z5 25
11 2831	C150	CAPACITOR CE DI 3K3 S 400
11 2831	C160	CAPACITOR CE DI 3K3 S 400
11 2831	C170	CAPACITOR CE DI 3K3 S 400
13 1621	D..7	DIODE 1N4148 SWITCH
13 1628	D150	DIODE BAW62 SWITCH
13 1621	D151	DIODE 1N4148 SWITCH
13 1628	D160	DIODE BAW62 SWITCH
13 1621	D161	DIODE 1N4148 SWITCH
13 1628	D170	DIODE BAW62 SWITCH
13 1621	D171	DIODE 1N4148 SWITCH
30 6511	DL.1	DELAY LINE M P/S DL710,DL711
13 4002	I..1	INTEGRATED CIRCUIT 7812
13 2779	I..2	INTEGRATED CIRCUIT 3505 TDA
13 2798	I..3	INTEGRATED CIRCUIT 4510 TDA
13 2773	I..4	INTEGRATED CIRCUIT 4560/65 TDA

ITEM NO.	SIT.	DESCRIPTION
77 4212	L.40	COIL N40 C5 D0,125PALREC
30 6024	L.42	CHOKE RA NS 10 UH
77 4212	L.50	COIL N40 C5 D0,125PALREC
77 4211	L.54	COIL N56 K5 D0,125 PHASE
10 6109	P..1	TRIMPOT CAMH 47K M 0W05
10 6107	P..2	TRIMPOT CAMH 10K M 0W05
10 6107	P..3	TRIMPOT CAMH 10K M 0W05
10 6107	P..4	TRIMPOT CAMH 10K M 0W05
10 6102	P.40	TRIMPOT CAMH 220E M 0W05
71 6226	PC..	PC 40 DEC QUAD+RGB ABL 761368
13 25146	Q..1	TRANSISTOR BF869
13 25146	Q..2	TRANSISTOR BF869
13 25146	Q..3	TRANSISTOR BF869
13 25146	Q..4	TRANSISTOR BF869
13 25146	Q..5	TRANSISTOR BF869
13 25146	Q..6	TRANSISTOR BF869
13 1429	Q..7	TRANSISTOR BC548B,BC238B
13 1429	Q.11	TRANSISTOR BC548B,BC238B
13 1429	Q.12	TRANSISTOR BC548B,BC238B
13 2507	Q.21	TRANSISTOR BF324
13 2507	Q.22	TRANSISTOR BF324
13 2507	Q.23	TRANSISTOR BF324
13 14311	Q.24	TRANSISTOR BC327
10 11231	R..5	RESISTOR CF 75E J 0W25
10 1100	R..6	RESISTOR CF 1E J 0W25
10 11231	R..7	RESISTOR CF 75E J 0W25
10 11231	R..9	RESISTOR CF 75E J 0W25
10 11231	R.11	RESISTOR CF 75E J 0W25
10 1152	R.12	RESISTOR CF 22K J 0W25
10 1155	R.13	RESISTOR CF 39K J 0W25
10 1156	R.14	RESISTOR CF 47K J 0W25
10 1159	R.15	RESISTOR CF 82K J 0W25
10 1149	R.16	RESISTOR CF 12K J 0W25
10 1160	R.17	RESISTOR CF 100K J 0W25
10 1159	R.18	RESISTOR CF 82K J 0W25
10 1124	R.23	RESISTOR CF 100E J 0W25
10 1140	R.24	RESISTOR CF 2K2 J 0W25
10 1155	R.25	RESISTOR CF 39K J 0W25
10 1145	R.26	RESISTOR CF 5K6 J 0W25
10 1153	R.27	RESISTOR CF 27K J 0W25
10 1139	R.30	RESISTOR CF 1K8 J 0W25
10 1141	R.31	RESISTOR CF 2K7 J 0W25
10 1137	R.42	RESISTOR CF 1K2 J 0W25
10 1131	R.43	RESISTOR CF 390E J 0W25
10 1127	R.44	RESISTOR CF 180E J 0W25
10 1130	R.49	RESISTOR CF 330E J 0W25
10 1153	R.51	RESISTOR CF 27K J 0W25
10 1151	R.52	RESISTOR CF 18K J 0W25
10 1136	R.53	RESISTOR CF 1K J 0W25
10 1138	R.54	RESISTOR CF 1K5 J 0W25
10 1142	R.55	RESISTOR CF 3K3 J 0W25
10 1140	R.66	RESISTOR CF 2K2 J 0W25
10 1122	R.72	RESISTOR CF 68E J 0W25
10 1134	R.73	RESISTOR CF 680E J 0W25
10 1154	R.75	RESISTOR CF 33K J 0W25
10 1124	R.79	RESISTOR CF 100E J 0W25
10 1128	R.80	RESISTOR CF 220E J 0W25
10 1128	R.81	RESISTOR CF 220E J 0W25
10 1137	R.82	RESISTOR CF 1K2 J 0W25
10 1136	R.83	RESISTOR CF 1K J 0W25
10 1136	R.84	RESISTOR CF 1K J 0W25
10 1154	R.85	RESISTOR CF 33K J 0W25
10 1148	R.95	RESISTOR CF 10K J 0W25
10 1164	R.99	RESISTOR CF 220K J 0W25
10 1124	R150	RESISTOR CF 100E J 0W25
10 1246	R151	RESISTOR CF 6K8 J 0W50

ITEM NO.	SIT.	DESCRIPTION
10 1246	R152	RESISTOR CF 6K8 J 0W50
10 11369	R153	RESISTOR CFFUL 1K J 0W25
10 1134	R154	RESISTOR CF 680E J 0W25
10 1136	R157	RESISTOR CF 1K J 0W25
10 3158	R159	RESISTOR MO 68K J 0W70
10 1124	R160	RESISTOR CF 100E J 0W25
10 1246	R161	RESISTOR CF 6K8 J 0W50
10 1246	R162	RESISTOR CF 6K8 J 0W50
10 11369	R163	RESISTOR CFFUL 1K J 0W25
10 1134	R164	RESISTOR CF 680E J 0W25
10 1136	R167	RESISTOR CF 1K J 0W25
10 3158	R169	RESISTOR MO 68K J 0W70
10 1124	R170	RESISTOR CF 100E J 0W25
10 1246	R171	RESISTOR CF 6K8 J 0W50
10 1246	R172	RESISTOR CF 6K8 J 0W50
10 11369	R173	RESISTOR CFFUL 1K J 0W25
10 1134	R174	RESISTOR CF 680E J 0W25
10 1136	R177	RESISTOR CF 1K J 0W25
10 3158	R179	RESISTOR MO 68K J 0W70
10 1128	R180	RESISTOR CF 220E J 0W25
10 1133	R184	RESISTOR CF 560E J 0W25
10 1131	R185	RESISTOR CF 390E J 0W25
10 1133	R186	RESISTOR CF 560E J 0W25
30 6816	XT.1	X-TAL 8,867 238 MHZ
31 3578	002.	CONNECTOR MT MOBTE P 4 7,5
30 2061	004.	COIL CAN 10X10X12
31 3584	005.	CONNECTOR MT MOBTE P 2 2,5

76 1454 has been adjusted for ITT/Philips tubes
76 14549 has been adjusted for Videocolor tubes





Name PSN4DECODER + RGB AMPLIFIER		Article nr 76 1454
Date 17/11/87	Drawn PG	Checked RDF
BARCO Electronic		

MODIFICATIONS RESERVED

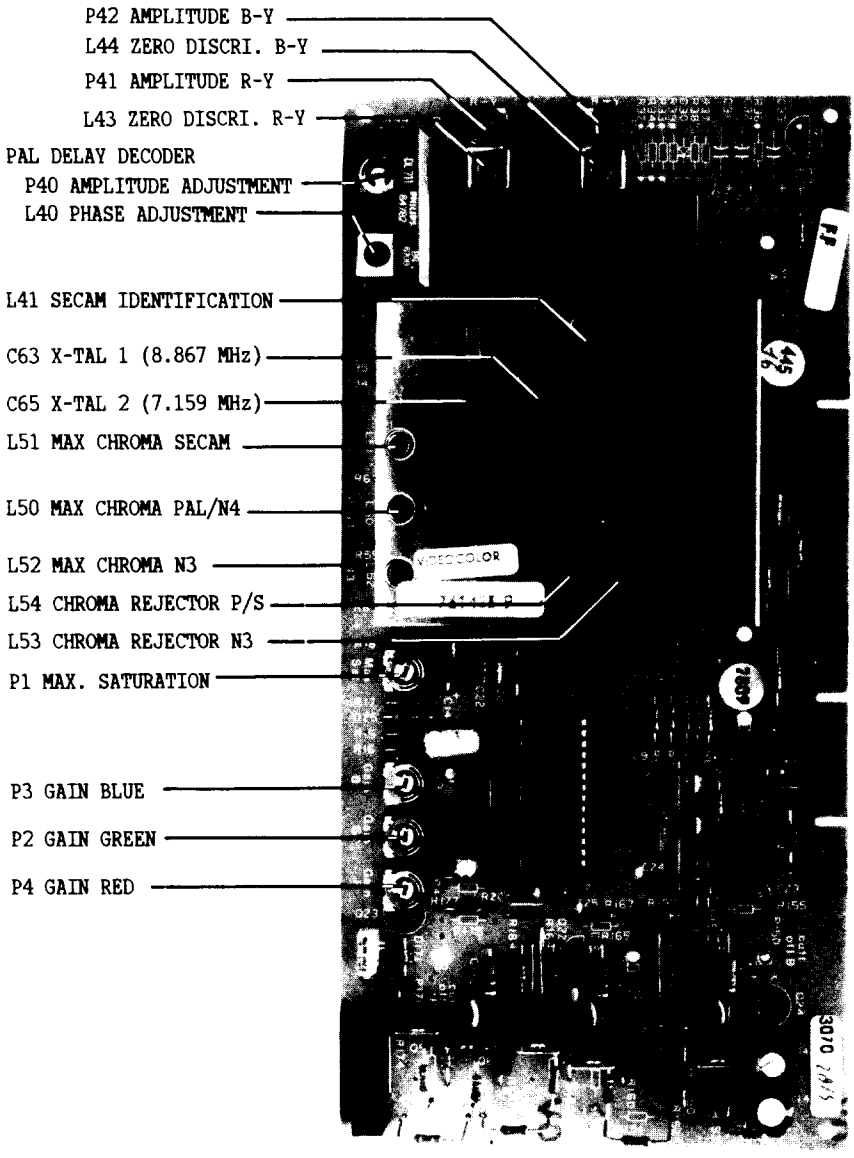
P/S/NTSC4.43 + RGB AMPLIFIER BOARD

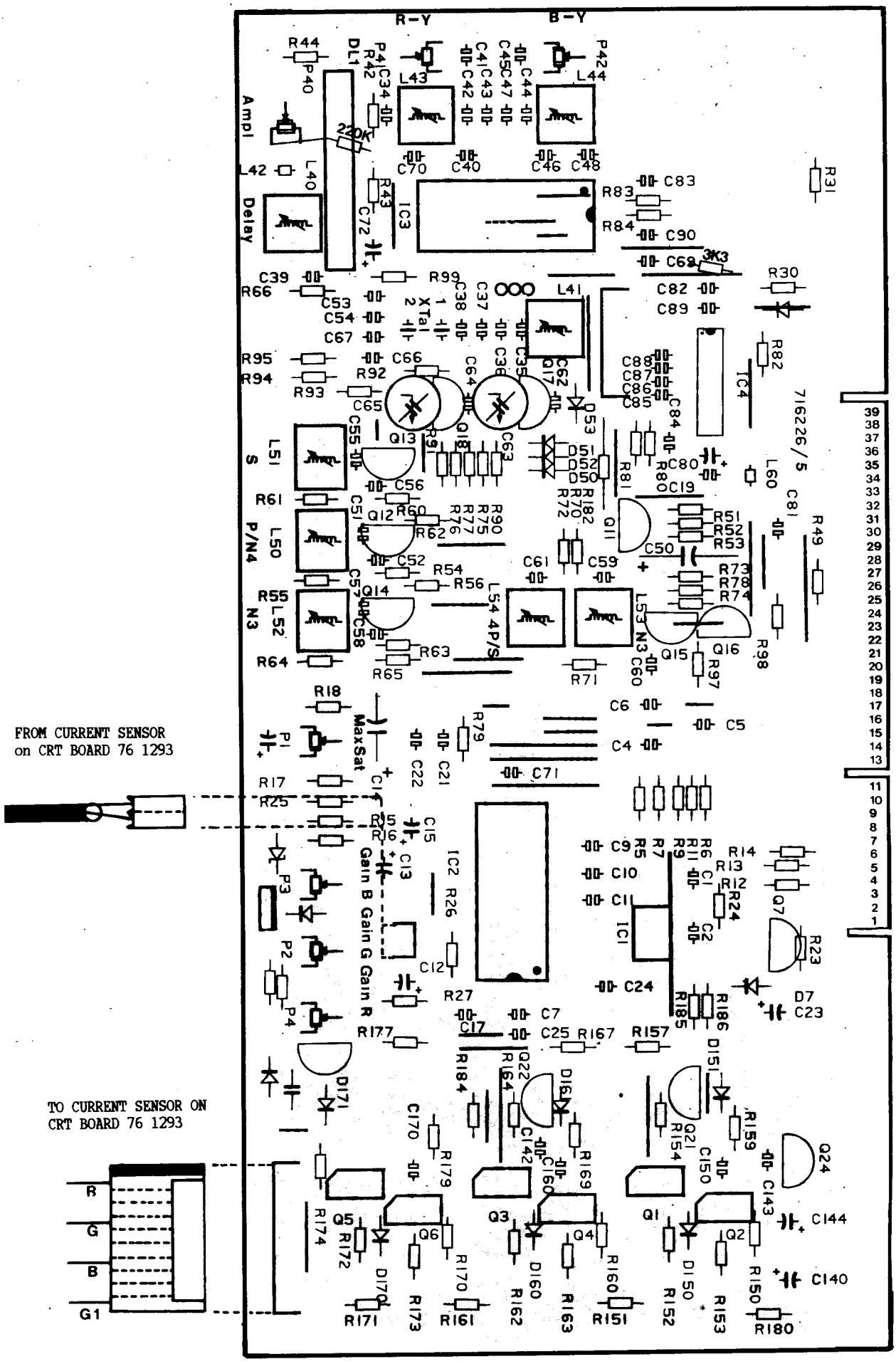
76 1454
76 14549

ITEM NO.	SIT.	DESCRIPTION	ITEM NO.	SIT.	DESCRIPTION	
11 2774	C..1	CAPACITOR CE MI 100K U5 63	13 1621	D..7	DIODE 1N4148	SWITCH
11 2774	C..2	CAPACITOR CE MI 100K U5 63	13 1621	D.50	DIODE 1N4148	SWITCH
11 3724	C..4	CAPACITOR POME 100K K5 63	13 1621	D.51	DIODE 1N4148	SWITCH
11 3724	C..5	CAPACITOR POME 100K K5 63	13 1621	D.52	DIODE 1N4148	SWITCH
11 3724	C..6	CAPACITOR POME 100K K5 63	13 1621	D.53	DIODE 1N4148	SWITCH
11 2774	C..7	CAPACITOR CE MI 100K U5 63	13 1628	D150	DIODE BAW62	SWITCH
11 2770	C..9	CAPACITOR CE MI 22K U5 63	13 1621	D151	DIODE 1N4148	SWITCH
11 2770	C.10	CAPACITOR CE MI 22K U5 63	13 1628	D160	DIODE BAW62	SWITCH
11 2770	C.11	CAPACITOR CE MI 22K U5 63	13 1621	D161	DIODE 1N4148	SWITCH
[illegible]	[illegible]	[illegible]	13 1628	D170	DIODE BAW62	SWITCH

ITEM NO.	SIT.	DESCRIPTION			
10 1153	R.27	RESISTOR CF	27K	J	0W25
10 1139	R.30	RESISTOR CF	1K8	J	0W25
10 1141	R.31	RESISTOR CF	2K7	J	0W25
10 1137	R.42	RESISTOR CF	1K2	J	0W25
10 1131	R.43	RESISTOR CF	390E	J	0W25
10 1127	R.44	RESISTOR CF	180E	J	0W25
10 1130	R.49	RESISTOR CF	330E	J	0W25
10 1148	R.50	RESISTOR CF	10K	J	0W25
10 1153	R.51	RESISTOR CF	27K	J	0W25
10 1151	R.52	RESISTOR CF	18K	J	0W25
10 1136	R.53	RESISTOR CF	1K	J	0W25
10 1138	R.54	RESISTOR CF	1K5	J	0W25
10 1142	R.55	RESISTOR CF	3K3	J	0W25
10 1150	R.56	RESISTOR CF	15K	J	0W25
10 1140	R.60	RESISTOR CF	2K2	J	0W25
10 1150	R.62	RESISTOR CF	15K	J	0W25
10 1140	R.66	RESISTOR CF	2K2	J	0W25
10 1122	R.72	RESISTOR CF	68E	J	0W25
10 1134	R.73	RESISTOR CF	680E	J	0W25
10 1144	R.75	RESISTOR CF	4K7	J	0W25
10 1144	R.77	RESISTOR CF	4K7	J	0W25
10 1124	R.79	RESISTOR CF	100E	J	0W25
10 1128	R.80	RESISTOR CF	220E	J	0W25
10 1128	R.81	RESISTOR CF	220E	J	0W25
10 1137	R.82	RESISTOR CF	1K2	J	0W25
10 1136	R.83	RESISTOR CF	1K	J	0W25
10 1136	R.84	RESISTOR CF	1K	J	0W25
10 1144	R.94	RESISTOR CF	4K7	J	0W25
10 1148	R.95	RESISTOR CF	10K	J	0W25
10 1150	R.97	RESISTOR CF	15K	J	0W25
10 1142	R.98	RESISTOR CF	3K3	J	0W25
10 1164	R.99	RESISTOR CF	220K	J	0W25
10 1124	R150	RESISTOR CF	100E	J	0W25
10 1246	R151	RESISTOR CF	6K8	J	0W50
10 1246	R152	RESISTOR CF	6K8	J	0W50
10 11369	R153	RESISTOR CFFUL	1K	J	0W25
10 1134	R154	RESISTOR CF	680E	J	0W25
10 1136	R157	RESISTOR CF	1K	J	0W25
10 3158	R159	RESISTOR MO	68K	J	0W70
10 1124	R160	RESISTOR CF	100E	J	0W25
10 1246	R161	RESISTOR CF	6K8	J	0W50
10 1246	R162	RESISTOR CF	6K8	J	0W50
10 11369	R163	RESISTOR CFFUL	1K	J	0W25
10 1134	R164	RESISTOR CF	680E	J	0W25
10 1136	R167	RESISTOR CF	1K	J	0W25
10 3158	R169	RESISTOR MO	68K	J	0W70
10 1124	R170	RESISTOR CF	100E	J	0W25
10 1246	R171	RESISTOR CF	6K8	J	0W50
10 1246	R172	RESISTOR CF	6K8	J	0W50
10 11369	R173	RESISTOR CFFUL	1K	J	0W25
10 1134	R174	RESISTOR CF	680E	J	0W25
10 1136	R177	RESISTOR CF	1K	J	0W25
10 3158	R179	RESISTOR MO	68K	J	0W70
10 1128	R180	RESISTOR CF	220E	J	0W25
10 1133	R184	RESISTOR CF	560E	J	0W25
10 1131	R185	RESISTOR CF	390E	J	0W25
10 1133	R186	RESISTOR CF	560E	J	0W25
10 1164		RESISTOR CF	220K	J	0W25
10 1172		RESISTOR CF	1M	J	0W25
30 6816	XT.1	X-TAL 8,867 238 MHZ			
31 3251	001.	CONNECTOR PIN MOBTE D0,8WIRE			
31 3578	002.	CONNECTOR MT MOBTE P 4 7,5			
30 2061	004.	COIL CAN 10X10X12			
31 3584	005.	CONNECTOR MT MOBTE P 2 2,5			
31 33921	006.	CONNECTOR JUMP F TE P 2 2,5			
34 81147	1000	JUMPER INSULATED M 37,5 MM			

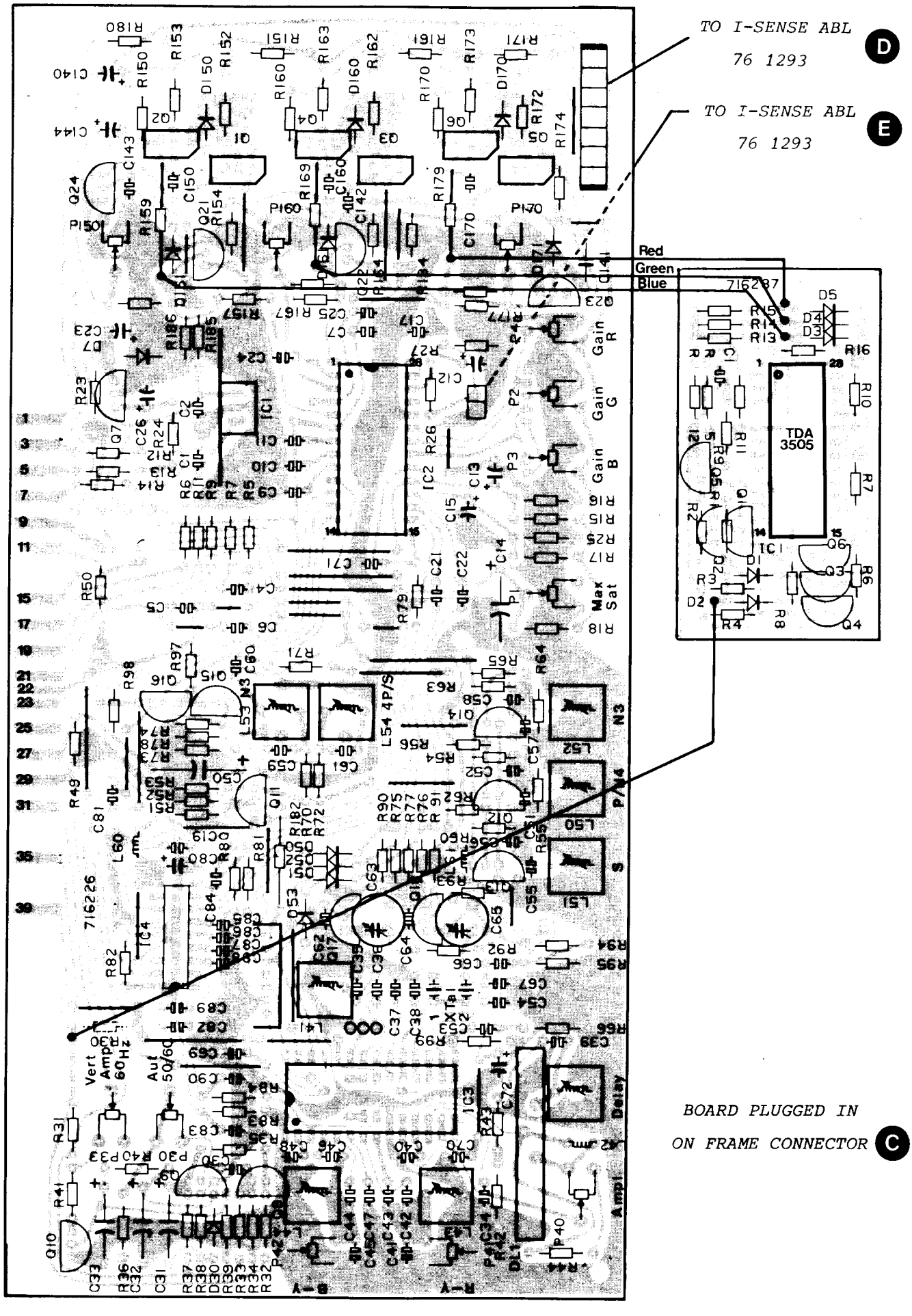
76 1455 has been adjusted for ITT/Philips tubes
76 14559 has been adjusted for Videocolor tubes





Name QUAD DECODER + RGB AMPLIFIER		Article nr. 76 1455
Date 17/11/87	Drawn PG	Checked RDF
BARCO Electronic	Noordlaan 5 8720 Kuurne Belgium	

MODIFICATIONS RESERVED

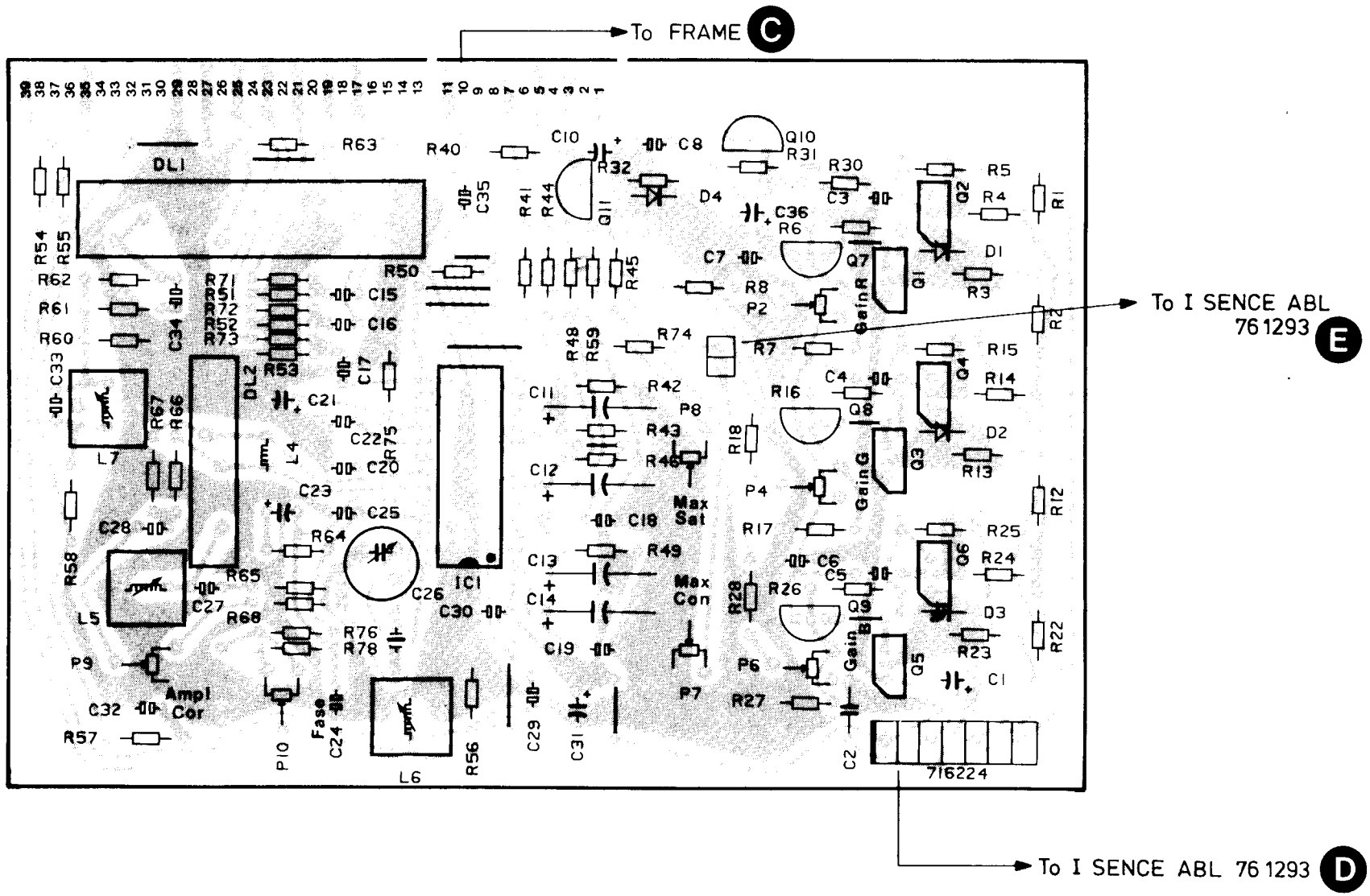


Name QUAD DECODER + RGB AMPLIFIER		Article nr. 7513688
Date 25/09/86	Drawn H.D.	Checked S.C.G.

BARCO Electronic

MODIFICATIONS RESERVED

BARCO Electronic	
06/11/86	PAL DECODER + RGB AMPLIFIER ABL
PG	76 1369
RDF	

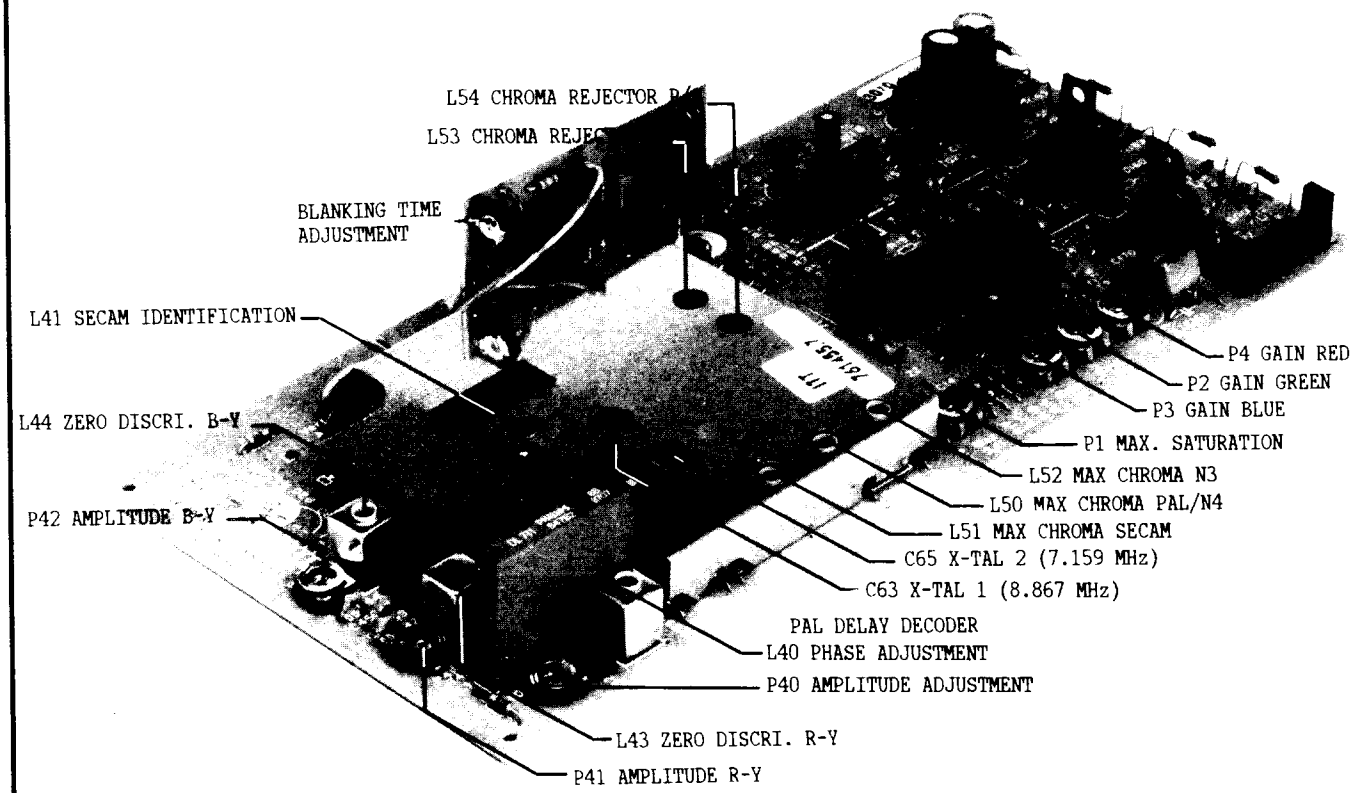


MODIFICATIONS RESERVED

ITEM NO.	SIT.	DESCRIPTION
11 2774	C..1	CAPACITOR CE MI 100K U5 63
11 2774	C..2	CAPACITOR CE MI 100K U5 63
11 3724	C..4	CAPACITOR POME 100K K5 63
11 3724	C..5	CAPACITOR POME 100K K5 63
11 3724	C..6	CAPACITOR POME 100K K5 63
11 2774	C..7	CAPACITOR CE MI 100K U5 63
11 2770	C..9	CAPACITOR CE MI 22K U5 63
11 2770	C.10	CAPACITOR CE MI 22K U5 63
11 2770	C.11	CAPACITOR CE MI 22K U5 63
11 1511	C.12	CAPACITOR ELPRMI 33M M5 16
11 1546	C.13	CAPACITOR ELPRMI 1M M5 50
11 11841	C.14	CAPACITOR ELAX 1M T 40
11 1531	C.15	CAPACITOR ELPRMI 10M M5 35
11 3730	C.17	CAPACITOR POME 330K K5 63
11 3724	C.19	CAPACITOR POME 100K K5 63
11 37161	C.21	CAPACITOR POME 22K K5 100
11 37161	C.22	CAPACITOR POME 22K K5 100
11 1550	C.23	CAPACITOR ELPRMI 4M7 M5 50
11 3730	C.24	CAPACITOR POME 330K K5 63
11 3730	C.25	CAPACITOR POME 330K K5 63
11 37161	C.34	CAPACITOR POME 22K K5 100
11 2365	C.35	CAPACITOR N750MI 180P J5 63
11 2739	C.36	CAPACITOR CE MI 1K K5 63
11 37161	C.37	CAPACITOR POME 22K K5 100
11 37161	C.38	CAPACITOR POME 22K K5 100
11 2774	C.39	CAPACITOR CE MI 100K U5 63
11 2763	C.40	CAPACITOR CE MI 10K U5 63
11 2243	C.41	CAPACITOR NPO MI 120P J5 63
11 2234	C.42	CAPACITOR NPO MI 22P G5 63
11 2240	C.43	CAPACITOR NPO MI 68P J5 63
11 2234	C.44	CAPACITOR NPO MI 22P G5 63
11 2243	C.45	CAPACITOR NPO MI 120P J5 63
11 2240	C.46	CAPACITOR NPO MI 68P J5 63
11 2366	C.47	CAPACITOR N750MI 220P J5 63
11 2366	C.48	CAPACITOR N750MI 220P J5 63
11 11565	C.50	CAPACITOR ELAX 10M Z 25
11 2364	C.51	CAPACITOR N750MI 150P J5 63
11 2739	C.52	CAPACITOR CE MI 1K K5 63
11 2366	C.53	CAPACITOR N750MI 220P J5 63
11 3730	C.54	CAPACITOR POME 330K K5 63
11 59061	C.55	CAPACITOR PP RA 390P J5 100
11 2739	C.56	CAPACITOR CE MI 1K K5 63
11 2366	C.57	CAPACITOR N750MI 220P J5 63
11 2739	C.58	CAPACITOR CE MI 1K K5 63
11 2243	C.59	CAPACITOR NPO MI 120P J5 63
11 3732	C.60	CAPACITOR POME 470K K5 63
11 22415	C.61	CAPACITOR NPO MI 82P J5 63
11 2739	C.62	CAPACITOR CE MI 1K K5 63
11 7001	C.63	CAPACITOR TRIM 7 -35P 160
11 2739	C.64	CAPACITOR CE MI 1K K5 63
11 7001	C.65	CAPACITOR TRIM 7 -35P 160
11 3730	C.66	CAPACITOR POME 330K K5 63
11 3720	C.67	CAPACITOR POME 47K K5 63
11 2739	C.69	CAPACITOR CE MI 1K K5 63
11 3728	C.70	CAPACITOR POME 220K K5 63
11 2238	C.71	CAPACITOR NPO MI 47P G5 63
11 1510	C.72	CAPACITOR ELPRMI 22M M5 25
11 1510	C.80	CAPACITOR ELPRMI 22M M5 25
11 3730	C.81	CAPACITOR POME 330K K5 63
11 3730	C.82	CAPACITOR POME 330K K5 63
11 2242	C.83	CAPACITOR NPO MI 100P J5 63
11 2735	C.84	CAPACITOR CE MI 470P K5 63
11 2735	C.85	CAPACITOR CE MI 470P K5 63
11 2368	C.86	CAPACITOR N750MI 330P J5 63
11 22395	C.87	CAPACITOR NPO MI 56P G5 63
11 22395	C.88	CAPACITOR NPO MI 56P G5 63
11 3730	C.89	CAPACITOR POME 330K K5 63
11 2242	C.90	CAPACITOR NPO MI 100P J5 63
11 1571	C140	CAPACITOR ELPR 2M2 M5 350
11 4132	C141	CAPACITOR POMEFF 100K K 250
11 2774	C142	CAPACITOR CE MI 100K U5 63
11 2774	C143	CAPACITOR CE MI 100K U5 63
11 1478	C144	CAPACITOR ELPR 220M Z5 25
11 2831	C150	CAPACITOR CE DI 3K3 S 400
11 2831	C160	CAPACITOR CE DI 3K3 S 400
11 2831	C170	CAPACITOR CE DI 3K3 S 400
13 1621	D..7	DIODE 1N4148 SWITCH
13 1621	D.50	DIODE 1N4148 SWITCH
13 1621	D.51	DIODE 1N4148 SWITCH
13 1621	D.52	DIODE 1N4148 SWITCH
13 1621	D.53	DIODE 1N4148 SWITCH
13 1628	D150	DIODE BAW62 SWITCH
13 1621	D151	DIODE 1N4148 SWITCH
13 1628	D160	DIODE BAW62 SWITCH
13 1621	D161	DIODE 1N4148 SWITCH
13 1628	D170	DIODE BAW62 SWITCH
13 1621	D171	DIODE 1N4148 SWITCH
30 6511	DL.1	DELAY LINE M P/S DL710,DL711
13 4002	I..1	INTEGRATED CIRCUIT 7812
13 2779	I..2	INTEGRATED CIRCUIT 3505 TDA
13 2778	I..3	INTEGRATED CIRCUIT 4555 TDA
13 2773	I..4	INTEGRATED CIRCUIT 4560/65 TDA
77 4212	L.40	COIL N40 C5 D0,125PALREC
77 4212	L.41	COIL N40 C5 D0,125PALREC
30 6024	L.42	CHOKE RA NS 10 UH
77 4212	L.43	COIL N40 C5 D0,125PALREC
77 4212	L.44	COIL N40 C5 D0,125PALREC
77 4212	L.50	COIL N40 C5 D0,125PALREC
77 3310	L.51	COIL N27,5 K5 D0,14 IF32
77 4212	L.52	COIL N40 C5 D0,125PALREC
77 4211	L.53	COIL N56 K5 D0,125 PHASE
77 4211	L.54	COIL N56 K5 D0,125 PHASE
10 6109	P..1	TRIMPOT CAMH 47K M 0W05
10 6107	P..2	TRIMPOT CAMH 10K M 0W05
10 6107	P..3	TRIMPOT CAMH 10K M 0W05
10 6107	P..4	TRIMPOT CAMH 10K M 0W05
10 6102	P.40	TRIMPOT CAMH 220E M 0W05
10 6105	P.41	TRIMPOT CAMH 2K2 M 0W05
10 6105	P.42	TRIMPOT CAMH 2K2 M 0W05
71 6226	PC..	PC 40 DEC QUAD+RGB ABL 761368
13 25146	Q..1	TRANSISTOR BF869
13 25146	Q..2	TRANSISTOR BF869
13 25146	Q..3	TRANSISTOR BF869
13 25146	Q..4	TRANSISTOR BF869
13 25146	Q..5	TRANSISTOR BF869
13 25146	Q..6	TRANSISTOR BF869
13 1429	Q..7	TRANSISTOR BC548B,BC238B
13 1429	Q.11	TRANSISTOR BC548B,BC238B
13 1429	Q.12	TRANSISTOR BC548B,BC238B
13 1429	Q.13	TRANSISTOR BC548B,BC238B
13 1429	Q.14	TRANSISTOR BC548B,BC238B
13 1429	Q.15	TRANSISTOR BC548B,BC238B
13 1429	Q.16	TRANSISTOR BC548B,BC238B
13 1429	Q.17	TRANSISTOR BC548B,BC238B
13 1429	Q.18	TRANSISTOR BC548B,BC238B
13 2507	Q.21	TRANSISTOR BF324
13 2507	Q.22	TRANSISTOR BF324
13 2507	Q.23	TRANSISTOR BF324
13 14311	Q.24	TRANSISTOR BC327
10 11231	R..5	RESISTOR CF 75E J 0W25
10 1100	R..6	RESISTOR CF 1E J 0W25
10 11231	R..7	RESISTOR CF 75E J 0W25

ITEM NO.	SIT.	DESCRIPTION			
10 11231	R..9	RESISTOR CF	75E	J	0W25
10 11231	R.11	RESISTOR CF	75E	J	0W25
10 1152	R.12	RESISTOR CF	22K	J	0W25
10 1155	R.13	RESISTOR CF	39K	J	0W25
10 1156	R.14	RESISTOR CF	47K	J	0W25
10 1159	R.15	RESISTOR CF	82K	J	0W25
10 1149	R.16	RESISTOR CF	12K	J	0W25
10 1160	R.17	RESISTOR CF	100K	J	0W25
10 1159	R.18	RESISTOR CF	82K	J	0W25
10 1124	R.23	RESISTOR CF	100E	J	0W25
10 1140	R.24	RESISTOR CF	2K2	J	0W25
10 1155	R.25	RESISTOR CF	39K	J	0W25
10 1145	R.26	RESISTOR CF	5K6	J	0W25
10 1153	R.27	RESISTOR CF	27K	J	0W25
10 1139	R.30	RESISTOR CF	1K8	J	0W25
10 1141	R.31	RESISTOR CF	2K7	J	0W25
10 1137	R.42	RESISTOR CF	1K2	J	0W25
10 1131	R.43	RESISTOR CF	390E	J	0W25
10 1127	R.44	RESISTOR CF	180E	J	0W25
10 1130	R.49	RESISTOR CF	330E	J	0W25
10 1148	R.50	RESISTOR CF	10K	J	0W25
10 1153	R.51	RESISTOR CF	27K	J	0W25
10 1151	R.52	RESISTOR CF	18K	J	0W25
10 1136	R.53	RESISTOR CF	1K	J	0W25
10 1138	R.54	RESISTOR CF	1K5	J	0W25
10 1142	R.55	RESISTOR CF	3K3	J	0W25
10 1150	R.56	RESISTOR CF	15K	J	0W25
10 1140	R.60	RESISTOR CF	2K2	J	0W25
10 1150	R.62	RESISTOR CF	15K	J	0W25
10 1132	R.63	RESISTOR CF	470E	J	0W25
10 1127	R.64	RESISTOR CF	180E	J	0W25
10 1150	R.65	RESISTOR CF	15K	J	0W25
10 1140	R.66	RESISTOR CF	2K2	J	0W25
10 1122	R.70	RESISTOR CF	68E	J	0W25
10 1150	R.71	RESISTOR CF	15K	J	0W25
10 1122	R.72	RESISTOR CF	68E	J	0W25
10 1134	R.73	RESISTOR CF	680E	J	0W25
10 1140	R.74	RESISTOR CF	2K2	J	0W25
10 1144	R.75	RESISTOR CF	4K7	J	0W25
10 1144	R.76	RESISTOR CF	4K7	J	0W25
10 1144	R.77	RESISTOR CF	4K7	J	0W25
10 1134	R.78	RESISTOR CF	680E	J	0W25
10 1124	R.79	RESISTOR CF	100E	J	0W25
10 1128	R.80	RESISTOR CF	220E	J	0W25
10 1128	R.81	RESISTOR CF	220E	J	0W25
10 1137	R.82	RESISTOR CF	1K2	J	0W25
10 1136	R.83	RESISTOR CF	1K	J	0W25
10 1136	R.84	RESISTOR CF	1K	J	0W25
10 1148	R.90	RESISTOR CF	10K	J	0W25
10 1148	R.91	RESISTOR CF	10K	J	0W25
10 1148	R.92	RESISTOR CF	10K	J	0W25
10 1148	R.93	RESISTOR CF	10K	J	0W25
10 1144	R.94	RESISTOR CF	4K7	J	0W25
10 1148	R.95	RESISTOR CF	10K	J	0W25
10 1136	R.96	RESISTOR CF	1K	J	0W25
10 1150	R.97	RESISTOR CF	15K	J	0W25
10 1142	R.98	RESISTOR CF	3K3	J	0W25
10 1164	R.99	RESISTOR CF	220K	J	0W25
10 1124	R150	RESISTOR CF	100E	J	0W25
10 1246	R151	RESISTOR CF	6K8	J	0W50
10 1246	R152	RESISTOR CF	6K8	J	0W50
10 11369	R153	RESISTOR CFFUL	1K	J	0W25
10 1134	R154	RESISTOR CF	680E	J	0W25
10 1136	R157	RESISTOR CF	1K	J	0W25
10 3158	R159	RESISTOR MO	68K	J	0W70
10 1124	R160	RESISTOR CF	100E	J	0W25
10 1246	R161	RESISTOR CF	6K8	J	0W50
10 1246	R162	RESISTOR CF	6K8	J	0W50
10 11369	R163	RESISTOR CFFUL	1K	J	0W25
10 1134	R164	RESISTOR CF	680E	J	0W25
10 1136	R167	RESISTOR CF	1K	J	0W25
10 3158	R169	RESISTOR MO	68K	J	0W70
10 1124	R170	RESISTOR CF	100E	J	0W25
10 1246	R171	RESISTOR CF	6K8	J	0W50
10 1246	R172	RESISTOR CF	6K8	J	0W50
10 11369	R173	RESISTOR CFFUL	1K	J	0W25
10 1134	R174	RESISTOR CF	680E	J	0W25
10 1136	R177	RESISTOR CF	1K	J	0W25
10 3158	R179	RESISTOR MO	68K	J	0W70
10 1128	R180	RESISTOR CF	220E	J	0W25
10 1233	R182	RESISTOR CF	560E	J	0W50
10 1133	R184	RESISTOR CF	560E	J	0W25
10 1131	R185	RESISTOR CF	390E	J	0W25
10 1133	R186	RESISTOR CF	560E	J	0W25
10 1124		RESISTOR CF	100E	J	0W25
10 1164		RESISTOR CF	220K	J	0W25
10 1172		RESISTOR CF	1M	J	0W25
30 6816	XT.1	X-TAL 8,867 238 MHZ			
30 6849	XT.2	X-TAL 7,159 090 MHZ PCM 5MM			
31 3251	001.	CONNECTOR PIN MOBTE DO,8WIRE			
31 3578	002.	CONNECTOR MT MOBTE P 4 7,5			
31 35866	003.	CONNECTOR MT MOBTE P 7 2,5			
30 2061	004.	COIL CAN 10X10X12			
31 3584	005.	CONNECTOR MT MOBTE P 2 2,5			
31 33921	006.	CONNECTOR JUMP F TE P 2 2,5			
80 1001	007.	SCREENING DEC QUAD			
34 81147	1000	JUMPER INSULATED M 37,5 MM			

76 14556 has been equipped with SHORTER BLANKING adjustment and adjusted for Videocolor tubes
76 14557 has been equipped with SHORTER BLANKING adjustment and adjusted for PCD picture tubes or ITT tubes



ITEM NO.	SIT.	DESCRIPTION
11 2774	C..1	CAPACITOR CE MI 100K U5 63
11 2774	C..2	CAPACITOR CE MI 100K U5 63
11 3724	C..4	CAPACITOR POME 100K K5 63
11 3724	C..5	CAPACITOR POME 100K K5 63
11 3724	C..6	CAPACITOR POME 100K K5 63
11 2774	C..7	CAPACITOR CE MI 100K U5 63
11 2770	C..9	CAPACITOR CE MI 22K U5 63
11 2770	C.10	CAPACITOR CE MI 22K U5 63
11 2770	C.11	CAPACITOR CE MI 22K U5 63
11 1510	C.12	CAPACITOR ELPRMI 22M M5 25
11 1546	C.13	CAPACITOR ELPRMI 1M M5 50
11 11841	C.14	CAPACITOR ELAX 1M T 40
11 1531	C.15	CAPACITOR ELPRMI 10M M5 35
11 3730	C.17	CAPACITOR POME 330K K5 63
11 3724	C.19	CAPACITOR POME 100K K5 63
11 37161	C.21	CAPACITOR POME 22K K5 100
11 37161	C.22	CAPACITOR POME 22K K5 100
11 1550	C.23	CAPACITOR ELPRMI 4M7 M5 50
11 3730	C.24	CAPACITOR POME 330K K5 63
11 3730	C.25	CAPACITOR POME 330K K5 63
11 37161	C.34	CAPACITOR POME 22K K5 100
11 2365	C.35	CAPACITOR N750MI 180P J5 63
11 2739	C.36	CAPACITOR CE MI 1K K5 63
11 37161	C.37	CAPACITOR POME 22K K5 100
11 37161	C.38	CAPACITOR POME 22K K5 100
11 2774	C.39	CAPACITOR CE MI 100K U5 63
11 2763	C.40	CAPACITOR CE MI 10K U5 63
11 2243	C.41	CAPACITOR NPO MI 120P J5 63
11 2234	C.42	CAPACITOR NPO MI 22P G5 63
11 2240	C.43	CAPACITOR NPO MI 68P J5 63
11 2234	C.44	CAPACITOR NPO MI 22P G5 63
11 2243	C.45	CAPACITOR NPO MI 120P J5 63
11 2240	C.46	CAPACITOR NPO MI 68P J5 63
11 2366	C.47	CAPACITOR N750MI 220P J5 63
11 2366	C.48	CAPACITOR N750MI 220P J5 63
11 11565	C.50	CAPACITOR ELAX 10M Z 25
11 2364	C.51	CAPACITOR N750MI 150P J5 63
11 2739	C.52	CAPACITOR CE MI 1K K5 63
11 2366	C.53	CAPACITOR N750MI 220P J5 63
11 3730	C.54	CAPACITOR POME 330K K5 63
11 59061	C.55	CAPACITOR PP RA 390P J5 100
11 2739	C.56	CAPACITOR CE MI 1K K5 63
11 2366	C.57	CAPACITOR N750MI 220P J5 63
11 2739	C.58	CAPACITOR CE MI 1K K5 63
11 2243	C.59	CAPACITOR NPO MI 120P J5 63
11 3732	C.60	CAPACITOR POME 470K K5 63
11 22415	C.61	CAPACITOR NPO MI 82P J5 63
11 2739	C.62	CAPACITOR CE MI 1K K5 63
11 7001	C.63	CAPACITOR TRIM 7 -35P 160
11 2739	C.64	CAPACITOR CE MI 1K K5 63
11 7001	C.65	CAPACITOR TRIM 7 -35P 160
11 3730	C.66	CAPACITOR POME 330K K5 63
11 3720	C.67	CAPACITOR POME 47K K5 63
11 2739	C.69	CAPACITOR CE MI 1K K5 63
11 3728	C.70	CAPACITOR POME 220K K5 63
11 2238	C.71	CAPACITOR NPO MI 47P G5 63
11 1510	C.72	CAPACITOR ELPRMI 22M M5 25
11 1510	C.80	CAPACITOR ELPRMI 22M M5 25
11 3730	C.81	CAPACITOR POME 330K K5 63
11 3730	C.82	CAPACITOR POME 330K K5 63
11 2242	C.83	CAPACITOR NPO MI 100P J5 63
11 2735	C.84	CAPACITOR CE MI 470P K5 63
11 2735	C.85	CAPACITOR CE MI 470P K5 63
11 2368	C.86	CAPACITOR N750MI 330P J5 63
11 22395	C.87	CAPACITOR NPO MI 56P G5 63
11 22395	C.88	CAPACITOR NPO MI 56P G5 63
11 3730	C.89	CAPACITOR POME 330K K5 63
11 2242	C.90	CAPACITOR NPO MI 100P J5 63
11 1571	C140	CAPACITOR ELPR 2M2 M5 350
11 4132	C141	CAPACITOR POMEFF 100K K 250
11 2774	C142	CAPACITOR CE MI 100K U5 63
11 2774	C143	CAPACITOR CE MI 100K U5 63
11 1478	C144	CAPACITOR ELPR 220M Z5 25
11 2831	C150	CAPACITOR CE DI 3K3 S 400
11 2831	C160	CAPACITOR CE DI 3K3 S 400
11 2831	C170	CAPACITOR CE DI 3K3 S 400
13 1621	D..7	DIODE 1N4148 SWITCH
13 1621	D.50	DIODE 1N4148 SWITCH
13 1621	D.51	DIODE 1N4148 SWITCH
13 1621	D.52	DIODE 1N4148 SWITCH
13 1621	D.53	DIODE 1N4148 SWITCH
13 1628	D150	DIODE BAW62 SWITCH
13 1621	D151	DIODE 1N4148 SWITCH
13 1628	D160	DIODE BAW62 SWITCH
13 1621	D161	DIODE 1N4148 SWITCH
13 1628	D170	DIODE BAW62 SWITCH
13 1621	D171	DIODE 1N4148 SWITCH
13 1636		DIODE BAT43 SD101 SCHOTTKY
30 6511	DL.1	DELAY LINE M P/S DL710,DL711
13 4002	I..1	INTEGRATED CIRCUIT 7812
13 2779	I..2	INTEGRATED CIRCUIT 3505 TDA
13 2778	I..3	INTEGRATED CIRCUIT 4555 TDA
13 2773	I..4	INTEGRATED CIRCUIT 4560/65 TDA
77 4212	L.40	COIL N40 C5 D0,125PALREC
77 4212	L.41	COIL N40 C5 D0,125PALREC
30 6024	L.42	CHOKE RA NS 10 UH
77 4212	L.43	COIL N40 C5 D0,125PALREC
77 4212	L.44	COIL N40 C5 D0,125PALREC
77 4212	L.50	COIL N40 C5 D0,125PALREC
77 3310	L.51	COIL N27,5 K5 D0,14 IF32
77 4212	L.52	COIL N40 C5 D0,125PALREC
77 4211	L.53	COIL N56 K5 D0,125 PHASE
77 4211	L.54	COIL N56 K5 D0,125 PHASE
10 6109	P..1	TRIMPOT CAMH 47K M 0W05
10 6107	P..2	TRIMPOT CAMH 10K M 0W05
10 6107	P..3	TRIMPOT CAMH 10K M 0W05
10 6107	P..4	TRIMPOT CAMH 10K M 0W05
10 6102	P.40	TRIMPOT CAMH 220E M 0W05
10 6105	P.41	TRIMPOT CAMH 2K2 M 0W05
10 6105	P.42	TRIMPOT CAMH 2K2 M 0W05
71 6226	PC..	PC 40 DEC QUAD+RGB ABL 761368
13 25146	Q..1	TRANSISTOR BF869
13 25146	Q..2	TRANSISTOR BF869
13 25146	Q..3	TRANSISTOR BF869
13 25146	Q..4	TRANSISTOR BF869
13 25146	Q..5	TRANSISTOR BF869
13 25146	Q..6	TRANSISTOR BF869
13 1429	Q..7	TRANSISTOR BC548B,BC238B
13 1429	Q.11	TRANSISTOR BC548B,BC238B
13 1429	Q.12	TRANSISTOR BC548B,BC238B
13 1429	Q.13	TRANSISTOR BC548B,BC238B
13 1429	Q.14	TRANSISTOR BC548B,BC238B
13 1429	Q.15	TRANSISTOR BC548B,BC238B
13 1429	Q.16	TRANSISTOR BC548B,BC238B
13 1429	Q.17	TRANSISTOR BC548B,BC238B
13 1429	Q.18	TRANSISTOR BC548B,BC238B
13 2507	Q.21	TRANSISTOR BF324
13 2507	Q.22	TRANSISTOR BF324
13 2507	Q.23	TRANSISTOR BF324
13 14311	Q.24	TRANSISTOR BC327
10 11231	R..5	RESISTOR CF 75E J 0W25
10 1100	R..6	RESISTOR CF 1E J 0W25

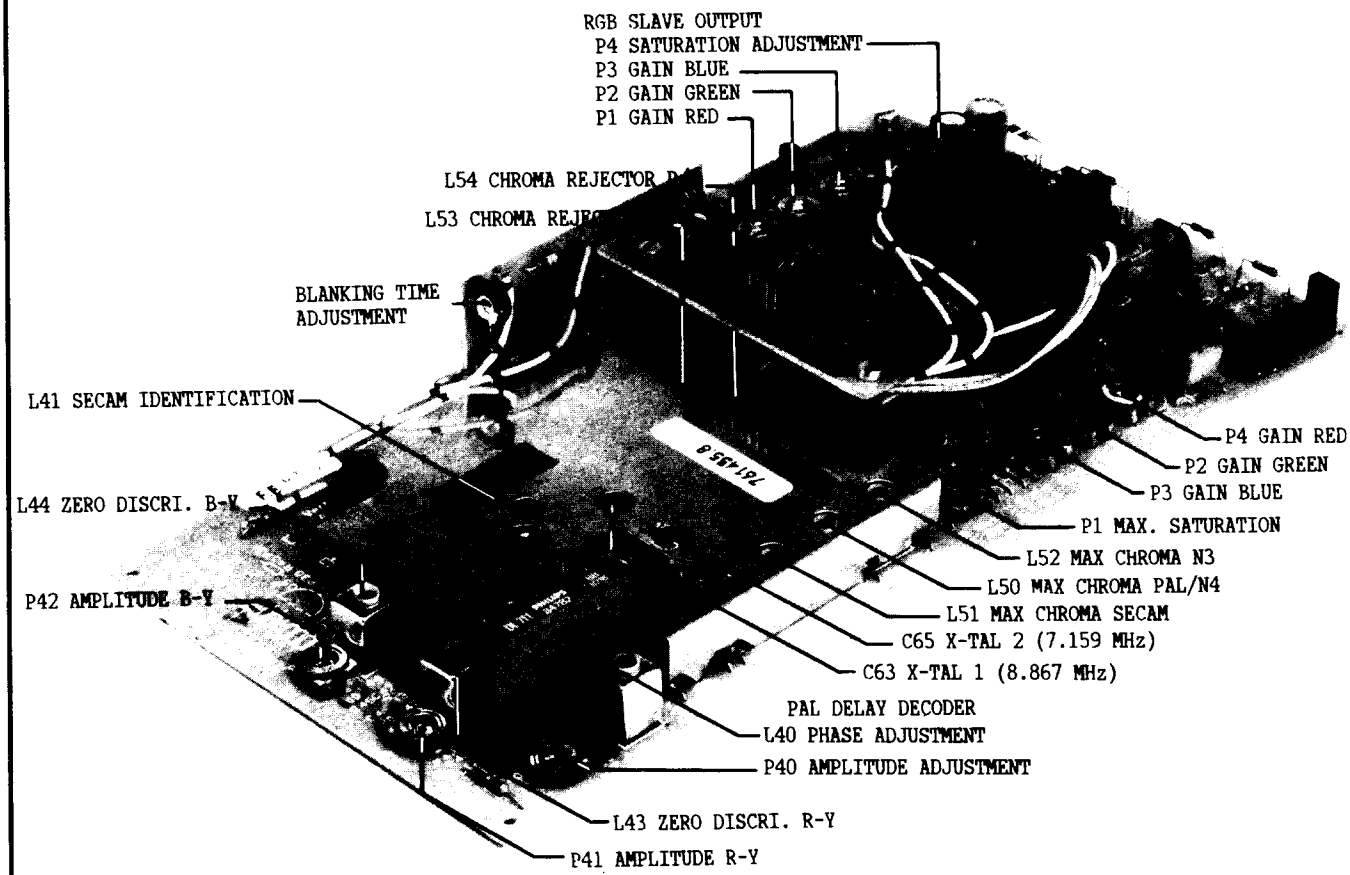
ITEM NO.	SIT.	DESCRIPTION			
10 11231	R..7	RESISTOR CF	75E	J	0W25
10 11231	R..9	RESISTOR CF	75E	J	0W25
10 11231	R.11	RESISTOR CF	75E	J	0W25
10 1152	R.12	RESISTOR CF	22K	J	0W25
10 1155	R.13	RESISTOR CF	39K	J	0W25
10 1156	R.14	RESISTOR CF	47K	J	0W25
10 1159	R.15	RESISTOR CF	82K	J	0W25
10 1149	R.16	RESISTOR CF	12K	J	0W25
10 1160	R.17	RESISTOR CF	100K	J	0W25
10 1159	R.18	RESISTOR CF	82K	J	0W25
10 1124	R.23	RESISTOR CF	100E	J	0W25
10 1140	R.24	RESISTOR CF	2K2	J	0W25
10 1155	R.25	RESISTOR CF	39K	J	0W25
10 1145	R.26	RESISTOR CF	5K6	J	0W25
10 1153	R.27	RESISTOR CF	27K	J	0W25
10 1148	R.30	RESISTOR CF	10K	J	0W25
10 1141	R.31	RESISTOR CF	2K7	J	0W25
10 1137	R.42	RESISTOR CF	1K2	J	0W25
10 1131	R.43	RESISTOR CF	390E	J	0W25
10 1127	R.44	RESISTOR CF	180E	J	0W25
10 1130	R.49	RESISTOR CF	330E	J	0W25
10 1148	R.50	RESISTOR CF	10K	J	0W25
10 1153	R.51	RESISTOR CF	27K	J	0W25
10 1151	R.52	RESISTOR CF	18K	J	0W25
10 1136	R.53	RESISTOR CF	1K	J	0W25
10 1138	R.54	RESISTOR CF	1K5	J	0W25
10 1142	R.55	RESISTOR CF	3K3	J	0W25
10 1150	R.56	RESISTOR CF	15K	J	0W25
10 1140	R.60	RESISTOR CF	2K2	J	0W25
10 1150	R.62	RESISTOR CF	15K	J	0W25
10 1132	R.63	RESISTOR CF	470E	J	0W25
10 1127	R.64	RESISTOR CF	180E	J	0W25
10 1150	R.65	RESISTOR CF	15K	J	0W25
10 1140	R.66	RESISTOR CF	2K2	J	0W25
10 1122	R.70	RESISTOR CF	68E	J	0W25
10 1150	R.71	RESISTOR CF	15K	J	0W25
10 1122	R.72	RESISTOR CF	68E	J	0W25
10 1134	R.73	RESISTOR CF	680E	J	0W25
10 1140	R.74	RESISTOR CF	2K2	J	0W25
10 1144	R.75	RESISTOR CF	4K7	J	0W25
10 1144	R.76	RESISTOR CF	4K7	J	0W25
10 1144	R.77	RESISTOR CF	4K7	J	0W25
10 1134	R.78	RESISTOR CF	680E	J	0W25
10 1124	R.79	RESISTOR CF	100E	J	0W25
10 1128	R.80	RESISTOR CF	220E	J	0W25
10 1128	R.81	RESISTOR CF	220E	J	0W25
10 1137	R.82	RESISTOR CF	1K2	J	0W25
10 1136	R.83	RESISTOR CF	1K	J	0W25
10 1136	R.84	RESISTOR CF	1K	J	0W25
10 1148	R.90	RESISTOR CF	10K	J	0W25
10 1148	R.91	RESISTOR CF	10K	J	0W25
10 1148	R.92	RESISTOR CF	10K	J	0W25

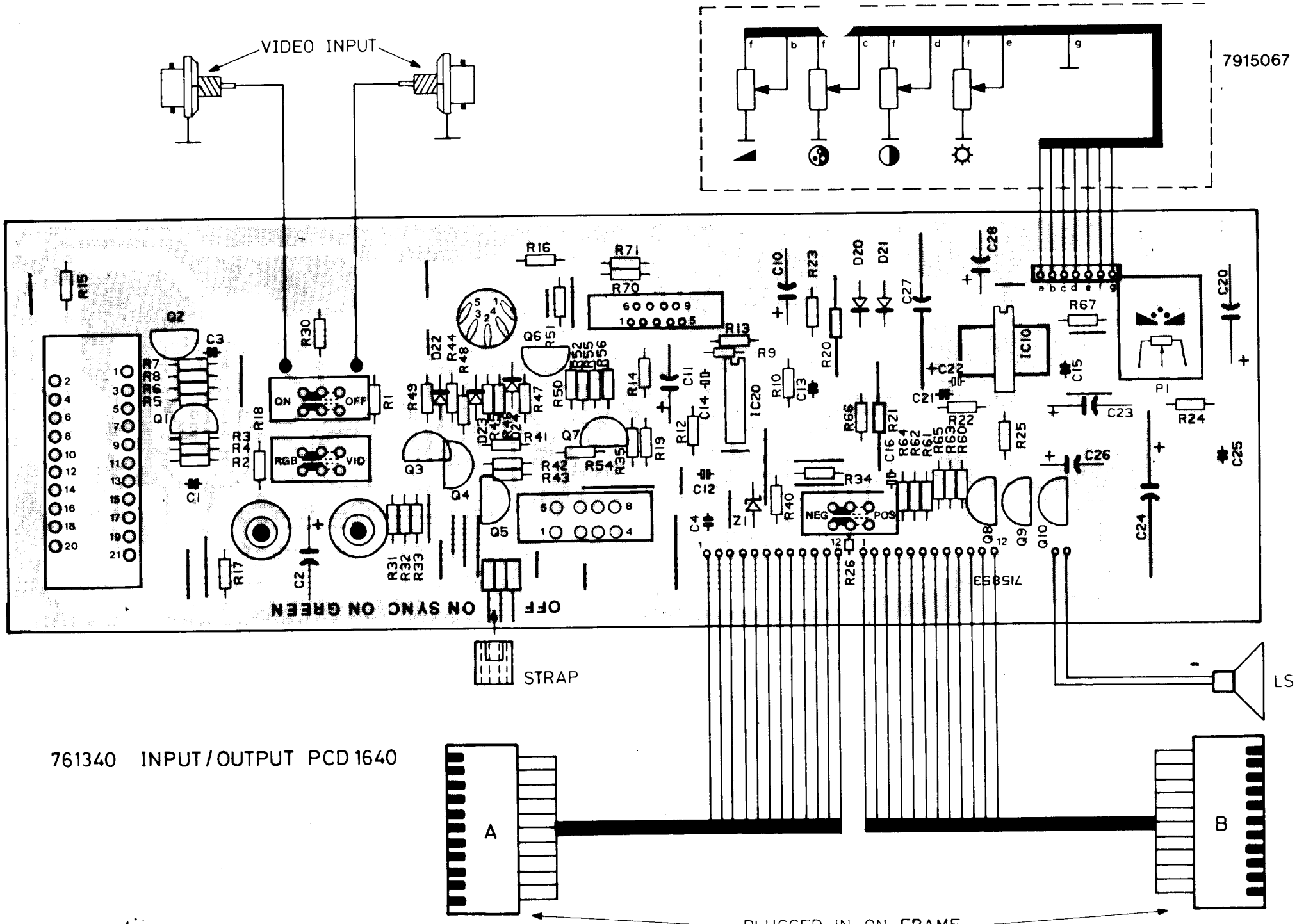
ITEM NO.	SIT.	DESCRIPTION			
10 1148	R.93	RESISTOR CF	10K	J	0W25
10 1144	R.94	RESISTOR CF	4K7	J	0W25
10 1148	R.95	RESISTOR CF	10K	J	0W25
10 1136	R.96	RESISTOR CF	1K	J	0W25
10 1150	R.97	RESISTOR CF	15K	J	0W25
10 1142	R.98	RESISTOR CF	3K3	J	0W25
10 1164	R.99	RESISTOR CF	220K	J	0W25
10 1124	R150	RESISTOR CF	100E	J	0W25
10 1246	R151	RESISTOR CF	6K8	J	0W50
10 1246	R152	RESISTOR CF	6K8	J	0W50
10 11369	R153	RESISTOR CFFUL	1K	J	0W25
10 1134	R154	RESISTOR CF	680E	J	0W25
10 1136	R157	RESISTOR CF	1K	J	0W25
10 3158	R159	RESISTOR MO	68K	J	0W70
10 1124	R160	RESISTOR CF	100E	J	0W25
10 1246	R161	RESISTOR CF	6K8	J	0W50
10 1246	R162	RESISTOR CF	6K8	J	0W50
10 11369	R163	RESISTOR CFFUL	1K	J	0W25
10 1134	R164	RESISTOR CF	680E	J	0W25
10 1136	R167	RESISTOR CF	1K	J	0W25
10 3158	R169	RESISTOR MO	68K	J	0W70
10 1124	R170	RESISTOR CF	100E	J	0W25
10 1246	R171	RESISTOR CF	6K8	J	0W50
10 1246	R172	RESISTOR CF	6K8	J	0W50
10 11369	R173	RESISTOR CFFUL	1K	J	0W25
10 1134	R174	RESISTOR CF	680E	J	0W25
10 1136	R177	RESISTOR CF	1K	J	0W25
10 3158	R179	RESISTOR MO	68K	J	0W70
10 1128	R180	RESISTOR CF	220E	J	0W25
10 1233	R182	RESISTOR CF	560E	J	0W50
10 1133	R184	RESISTOR CF	560E	J	0W25
10 1131	R185	RESISTOR CF	390E	J	0W25
10 1133	R186	RESISTOR CF	560E	J	0W25
10 1124		RESISTOR CF	100E	J	0W25
10 1142		RESISTOR CF	3K3	J	0W25
10 1164		RESISTOR CF	220K	J	0W25
10 1172		RESISTOR CF	1M	J	0W25
30 6816	XT.1	X-TAL 8,867 238 MHZ			
30 6849	XT.2	X-TAL 7,159 090 MHZ PCM 5MM			
76 1436		UN.VER PULS SHORTER LZ TCT			
31 3251	001.	CONNECTOR PIN MOBTE D0,8WIRE			
31 3578	002.	CONNECTOR MT MOBTE P 4 7,5			
31 35866	003.	CONNECTOR MT MOBTE P 7 2,5			
30 2061	004.	COIL CAN 10X10X12			
31 3584	005.	CONNECTOR MT MOBTE P 2 2,5			
31 33921	006.	CONNECTOR JUMP F TE P 2 2,5			
80 1001	007.	SCREENING DEC QUAD			
34 81147	1000	JUMPER INSULATED M 37,5 MM			

ITEM NO.	SIT.	DESCRIPTION
11 3724	C..1	CAPACITOR POME 100K K5 63
11 59161	C..2	CAPACITOR PP RA 1K J5 100
11 1476	C..3	CAPACITOR ELPR 47M Z5 25
13 1621	D..1	DIODE 1N4148 SWITCH
13 1621	D..2	DIODE 1N4148 SWITCH
13 7320	I..1	INTEGRATED CIRCUIT 4001B
13 7320	I..2	INTEGRATED CIRCUIT 4001B
10 6007	P..1	TRIMPOT CAMV 10K M 0W05
71 6403	PC..	PC TCT-LZ VER PULS 761436

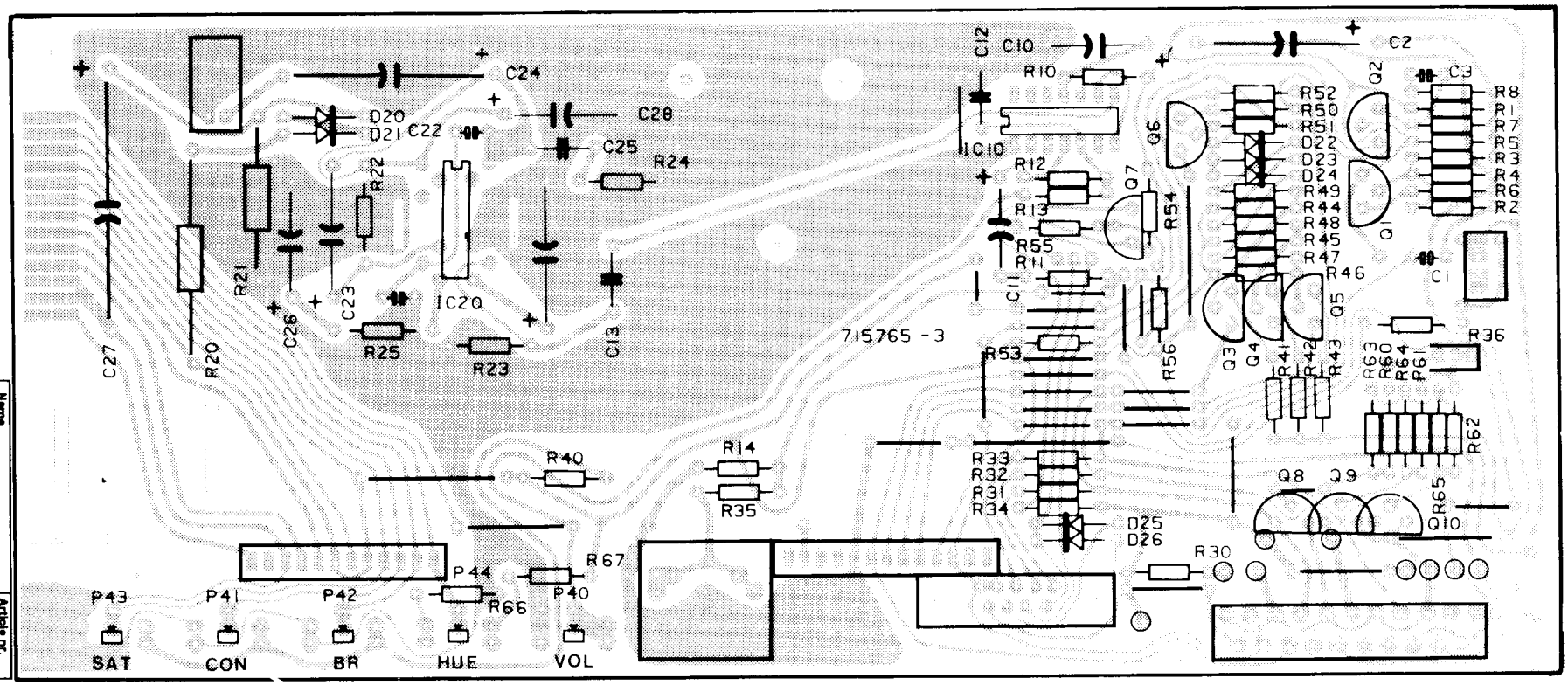
ITEM NO.	SIT.	DESCRIPTION
13 14182	Q..1	TRANSISTOR BC559C,BC309C
10 1136	R..1	RESISTOR CF 1K J 0W25
10 1148	R..2	RESISTOR CF 10K J 0W25
10 1155	R..4	RESISTOR CF 39K J 0W25
10 1148	R..5	RESISTOR CF 10K J 0W25
10 1142	R..6	RESISTOR CF 3K3 J 0W25
10 1148	R..7	RESISTOR CF 10K J 0W25
10 1161	R..8	RESISTOR CF 120K J 0W25
10 1151	R..9	RESISTOR CF 18K J 0W25
31 3366	001.	CONNECTOR CIS MOBSE P 1 REEL

76 14558 has been equipped with SHORTER BLANKING adjustment and
RGB ANALOG SLAVE OUTPUT



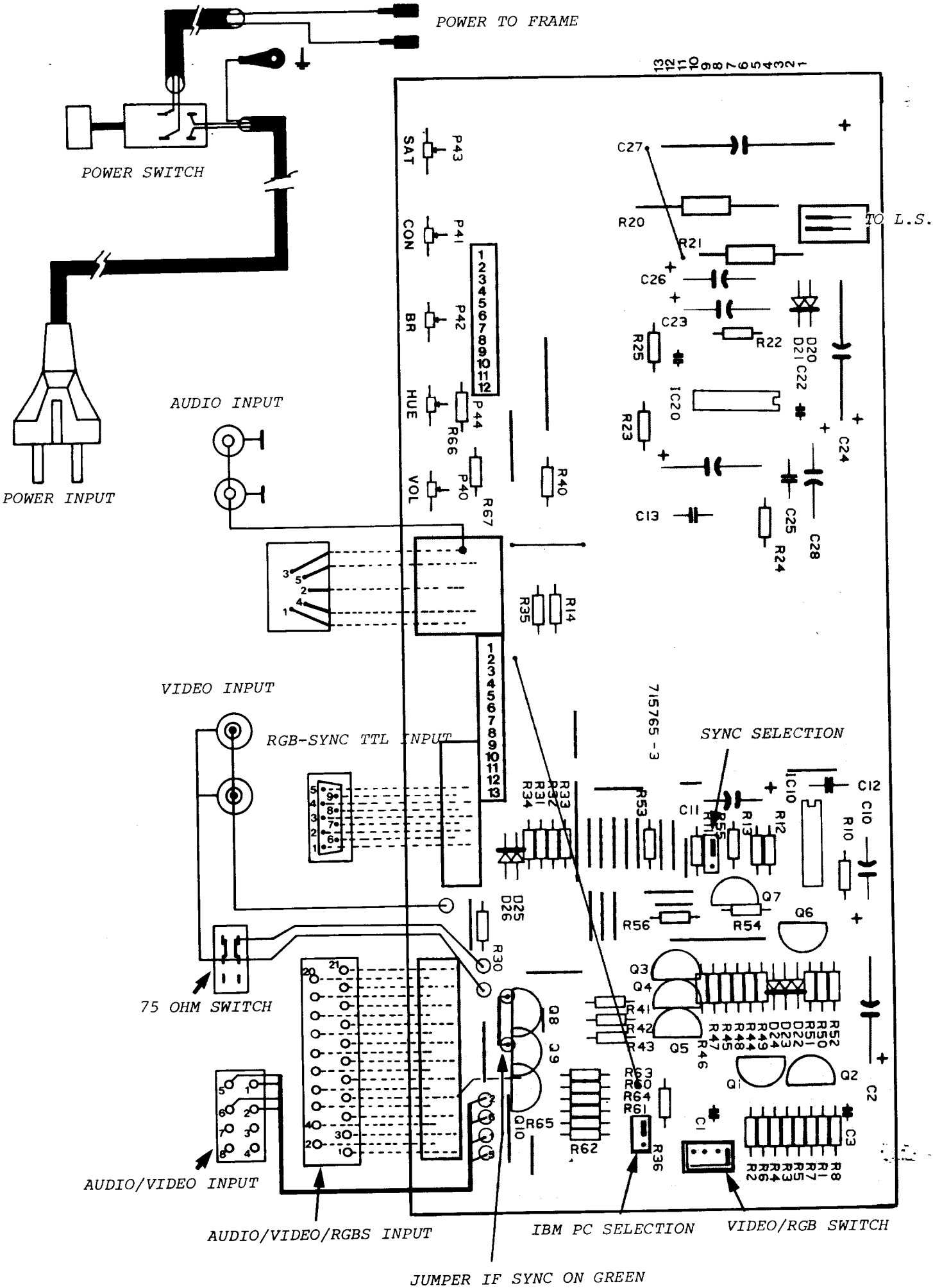


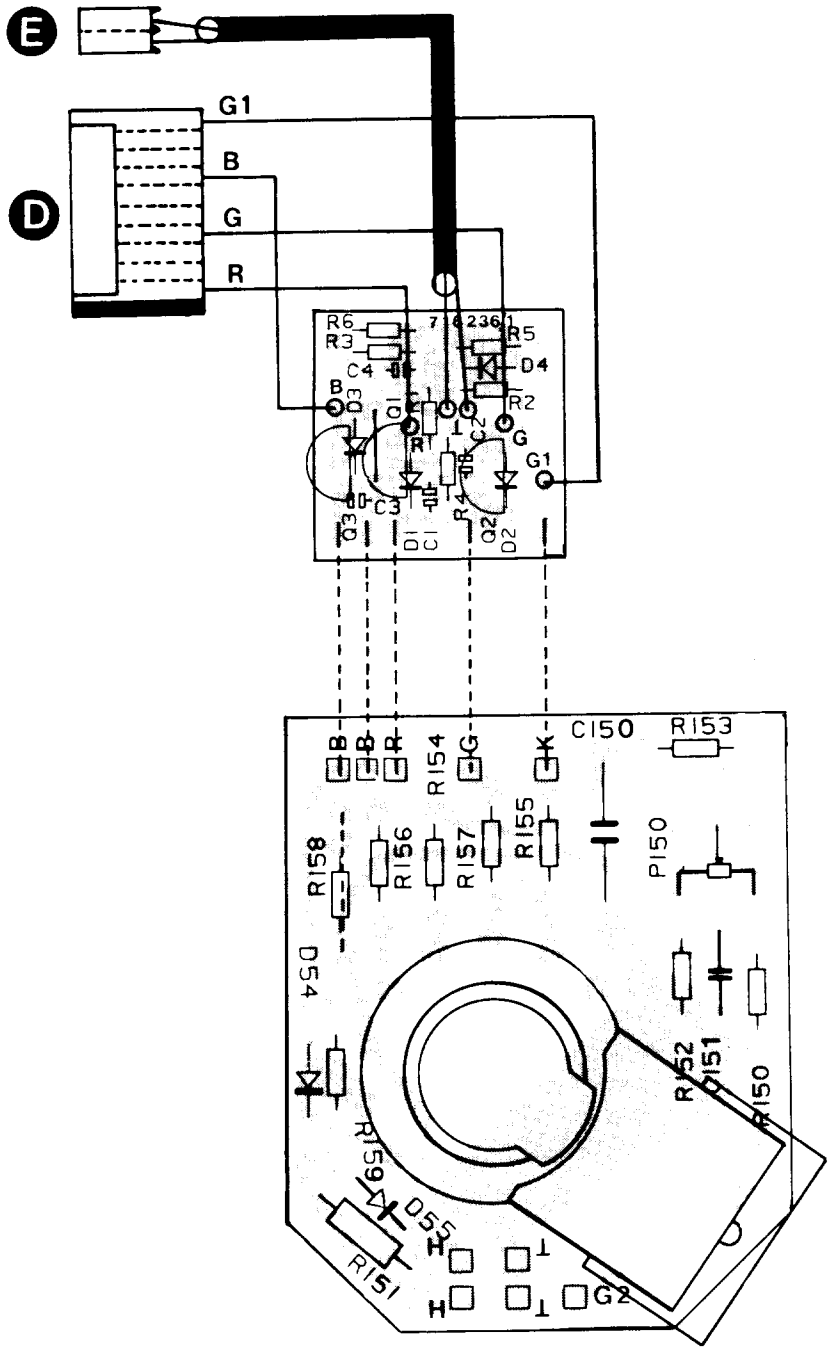
761340 INPUT/OUTPUT PCD 1640



Name	IN/OUTPUT MCD 2740 Q DATA		Article nr. 76 11948
Date 12/09/89	Drawn LDW	Checked LDW	

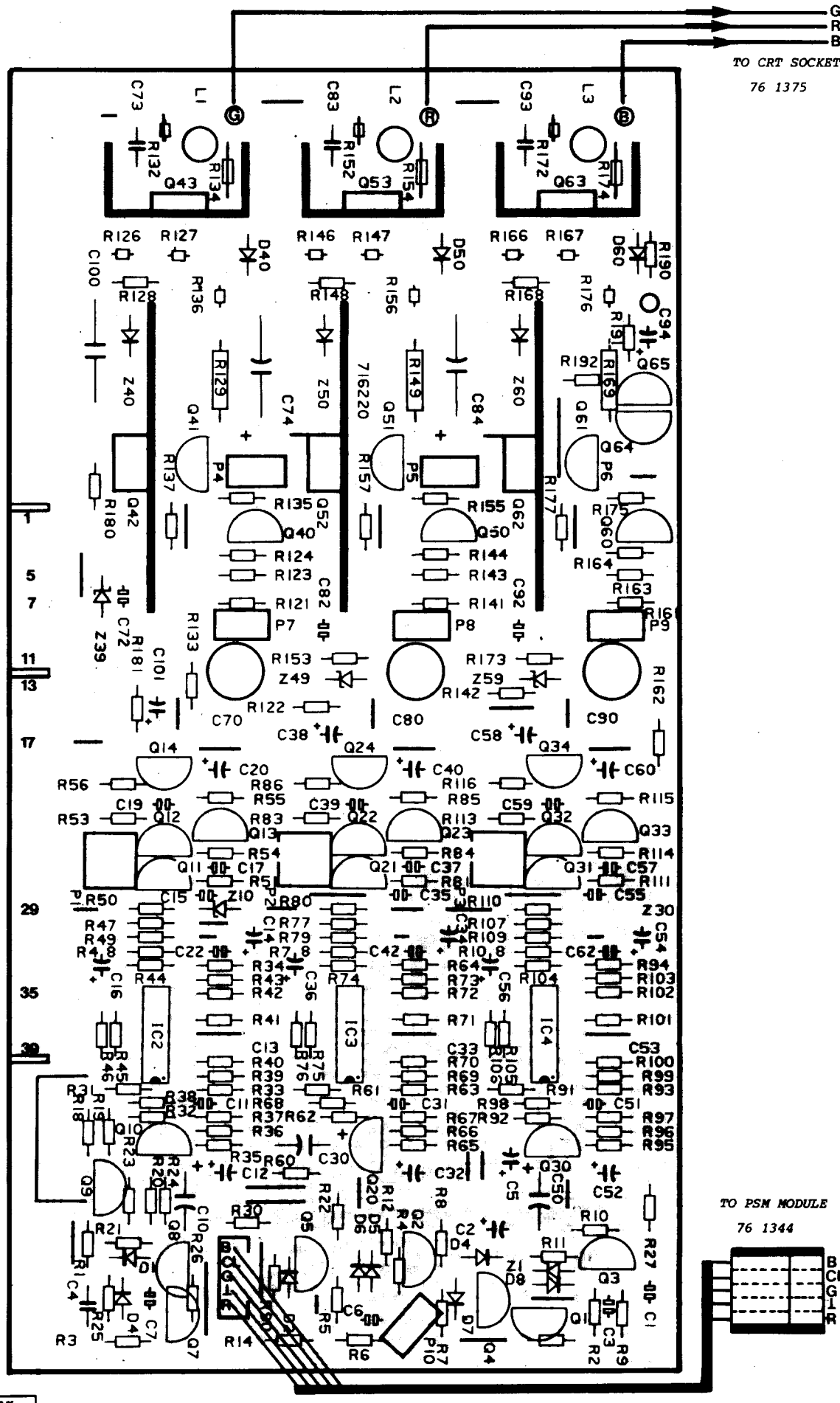
BARCO — Noordlaan 5, 8720 Kuurne - Belgium
BARCO Video & Communications n.v.


POWER TO FRAME
POWER SWITCH
POWER INPUT
AUDIO INPUT
VIDEO INPUT
RGB-SYNC TTL INPUT
75 OHM SWITCH
AUDIO/VIDEO INPUT
AUDIO/VIDEO/RGBS INPUT
IBM PC SELECTION
VIDEO/RGB SWITCH
JUMPER IF SYNC ON GREEN
SYNC SELECTION
TO L.S.
715765 - 3
SAT
CON
BR
HUE
VOL
P43
P41
P42
P44
P40
R66
R67
R40
R35
R14
R20
R21
R22
R23
R24
R25
C27
C26
C23
C22
C24
C25
C28
C13
IC20
D20
D21
R53
R55
R13
R12
R10
IC10
C12
C10
C11
R56
R54
Q7
Q6
D25
D26
R30
Q3
Q4
Q5
R41
R42
R43
R46
R47
R45
R44
R49
R48
R51
R50
R52
D22
D23
D24
Q1
Q2
C2
C3
C1
R63
R60
R64
R61
R36
R65
R62
Q8
Q9
Q10
R8
R1
R7
R5
R3
R4
R6
R2



Name: CRT SOCKET / ABL		Article nr: 76 1293
Date: 17/11/86	Drawn: PG	Checked: RDF
BARCO Electronic		

MODIFICATIONS RESERVED



Name: RGB AMPL 40MHz	Article nr. 76 1366	
Date: 24-02-87	Drawn: ADJ	Checked:
BARCO Electronic	Noordlaan 5 8720 Kuurne Belgium	

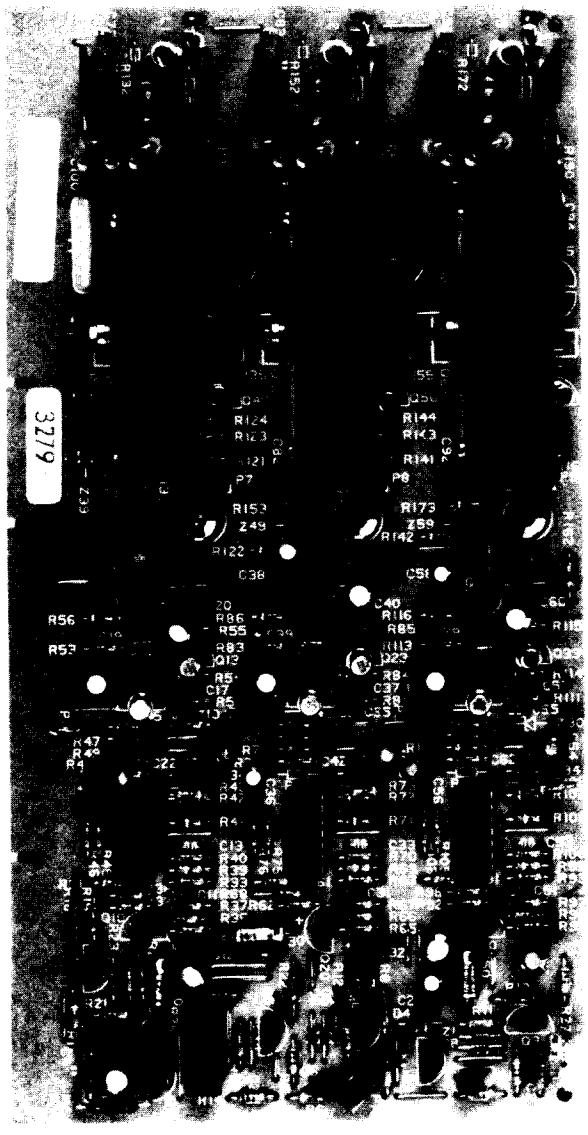
MODIFICATIONS RESERVED

ITEM NO.	SIT.	DESCRIPTION
11 2238	C..1	CAPACITOR NPO MI 47P G5 63
11 2774	C..2	CAPACITOR CE MI 100K U5 63
11 2770	C..3	CAPACITOR CE MI 22K U5 63
11 2770	C..4	CAPACITOR CE MI 22K U5 63
11 2774	C..5	CAPACITOR CE MI 100K U5 63
11 2774	C..6	CAPACITOR CE MI 100K U5 63
11 2774	C..7	CAPACITOR CE MI 100K U5 63
11 2774	C..8	CAPACITOR CE MI 100K U5 63
11 2770	C..9	CAPACITOR CE MI 22K U5 63
11 2770	C.10	CAPACITOR CE MI 22K U5 63
11 2770	C.11	CAPACITOR CE MI 22K U5 63
11 3730	C.13	CAPACITOR POME 330K K5 63
11 1546	C.17	CAPACITOR ELPRMI 1M M5 50
11 1546	C.18	CAPACITOR ELPRMI 1M M5 50
11 1546	C.19	CAPACITOR ELPRMI 1M M5 50
11 1510	C.20	CAPACITOR ELPRMI 22M M5 25
11 1531	C.21	CAPACITOR ELPRMI 10M M5 35
11 1531	C.22	CAPACITOR ELPRMI 10M M5 35
11 1476	C.23	CAPACITOR ELPR 47M Z5 25
13 2779	I..1	INTEGRATED CIRCUIT 3505 TDA
10 6107	P..1	TRIMPOT CAMH 10K M 0W05
10 6107	P..2	TRIMPOT CAMH 10K M 0W05
10 6107	P..3	TRIMPOT CAMH 10K M 0W05
10 6108	P..4	TRIMPOT CAMH 22K M 0W05
71 6402	PC..	PC TCT-LZ RGB SLAVE OUT 761437
13 14181	Q..1	TRANSISTOR BC559B,BC309B
13 14181	Q..2	TRANSISTOR BC559B,BC309B
13 14072	Q..3	TRANSISTOR BC547A,BC237A
13 14072	Q..4	TRANSISTOR BC547A,BC237A
13 14072	Q..5	TRANSISTOR BC547A,BC237A
13 14181	Q..6	TRANSISTOR BC559B,BC309B
13 14181	Q..7	TRANSISTOR BC559B,BC309B
13 14181	Q..8	TRANSISTOR BC559B,BC309B

ITEM NO.	SIT.	DESCRIPTION
10 1124	R..1	RESISTOR CF 100E J 0W25
10 1148	R..2	RESISTOR CF 10K J 0W25
10 1139	R..3	RESISTOR CF 1K8 J 0W25
10 1112	R..4	RESISTOR CF 10E J 0W25
10 1127	R..7	RESISTOR CF 180E J 0W25
10 1127	R..8	RESISTOR CF 180E J 0W25
10 1127	R..9	RESISTOR CF 180E J 0W25
10 11231	R.10	RESISTOR CF 75E J 0W25
10 11231	R.11	RESISTOR CF 75E J 0W25
10 11231	R.12	RESISTOR CF 75E J 0W25
10 1136	R.13	RESISTOR CF 1K J 0W25
10 1136	R.14	RESISTOR CF 1K J 0W25
10 1136	R.15	RESISTOR CF 1K J 0W25
10 1153	R.16	RESISTOR CF 27K J 0W25
10 1160	R.17	RESISTOR CF 100K J 0W25
10 1161	R.18	RESISTOR CF 120K J 0W25
10 1155	R.19	RESISTOR CF 39K J 0W25
10 1151	R.20	RESISTOR CF 18K J 0W25
10 1156	R.21	RESISTOR CF 47K J 0W25
10 1160	R.22	RESISTOR CF 100K J 0W25
10 1160	R.23	RESISTOR CF 100K J 0W25
10 1136	R.24	RESISTOR CF 1K J 0W25
10 1133	R.25	RESISTOR CF 560E J 0W25
10 1230	R.26	RESISTOR CF 330E J 0W50
10 1148	R.27	RESISTOR CF 10K J 0W25
10 1142	R.28	RESISTOR CF 3K3 J 0W25
10 11231	R.29	RESISTOR CF 75E J 0W25
10 11231	R.30	RESISTOR CF 75E J 0W25
10 11231	R.31	RESISTOR CF 75E J 0W25
13 1716	Z..1	DIODE ZENER 5V1 0W5 C
31 35812	001.	CONNECTOR MT MOBTE P10 2,5
31 3253	002.	CONNECTOR IC FOBTE P28 15
30 2108	003.	CORE TUBE 1,3/3,5X3

ITEM NO.	SIT.	DESCRIPTION
11 2774	C..1	CAPACITOR CE MI 100K U5 63
11 2774	C..2	CAPACITOR CE MI 100K U5 63
11 3724	C..4	CAPACITOR POME 100K K5 63
11 3724	C..5	CAPACITOR POME 100K K5 63
11 3724	C..6	CAPACITOR POME 100K K5 63
11 2774	C..7	CAPACITOR CE MI 100K U5 63
11 2770	C..9	CAPACITOR CE MI 22K U5 63
11 2770	C.10	CAPACITOR CE MI 22K U5 63
11 2770	C.11	CAPACITOR CE MI 22K U5 63
11 1511	C.12	CAPACITOR ELPRMI 33M M5 16
11 1510	C.12	CAPACITOR ELPRMI 22M M5 25
11 1546	C.13	CAPACITOR ELPRMI 1M M5 50
11 11841	C.14	CAPACITOR ELAX 1M T 40
11 1531	C.15	CAPACITOR ELPRMI 10M M5 35
11 3730	C.17	CAPACITOR POME 330K K5 63
11 3724	C.19	CAPACITOR POME 100K K5 63
11 37161	C.21	CAPACITOR POME 22K K5 100
11 37161	C.22	CAPACITOR POME 22K K5 100
11 1550	C.23	CAPACITOR ELPRMI 4M7 M5 50
11 3730	C.24	CAPACITOR POME 330K K5 63
11 3730	C.25	CAPACITOR POME 330K K5 63
11 37161	C.34	CAPACITOR POME 22K K5 100
11 2365	C.35	CAPACITOR N750MI 180P J5 63
11 2739	C.36	CAPACITOR CE MI 1K K5 63
11 37161	C.37	CAPACITOR POME 22K K5 100
11 37161	C.38	CAPACITOR POME 22K K5 100
11 2774	C.39	CAPACITOR CE MI 100K U5 63
11 2763	C.40	CAPACITOR CE MI 10K U5 63
11 2243	C.41	CAPACITOR NPO MI 120P J5 63
11 2234	C.42	CAPACITOR NPO MI 22P G5 63
11 2240	C.43	CAPACITOR NPO MI 68P J5 63
11 2234	C.44	CAPACITOR NPO MI 22P G5 63
11 2243	C.45	CAPACITOR NPO MI 120P J5 63
11 2240	C.46	CAPACITOR NPO MI 68P J5 63
11 2366	C.47	CAPACITOR N750MI 220P J5 63
11 2366	C.48	CAPACITOR N750MI 220P J5 63
11 11565	C.50	CAPACITOR ELAX 10M Z 25
11 2364	C.51	CAPACITOR N750MI 150P J5 63
11 2739	C.52	CAPACITOR CE MI 1K K5 63
11 2366	C.53	CAPACITOR N750MI 220P J5 63
11 3730	C.54	CAPACITOR POME 330K K5 63
11 59061	C.55	CAPACITOR PP RA 390P J5 100
11 2739	C.56	CAPACITOR CE MI 1K K5 63
11 2366	C.57	CAPACITOR N750MI 220P J5 63
11 2739	C.58	CAPACITOR CE MI 1K K5 63
11 2243	C.59	CAPACITOR NPO MI 120P J5 63
11 3732	C.60	CAPACITOR POME 470K K5 63
11 22415	C.61	CAPACITOR NPO MI 82P J5 63
11 2739	C.62	CAPACITOR CE MI 1K K5 63
11 7001	C.63	CAPACITOR TRIM 7 -35P 160
11 2739	C.64	CAPACITOR CE MI 1K K5 63
11 7001	C.65	CAPACITOR TRIM 7 -35P 160
11 3730	C.66	CAPACITOR POME 330K K5 63
11 3720	C.67	CAPACITOR POME 47K K5 63
11 2739	C.69	CAPACITOR CE MI 1K K5 63
11 3728	C.70	CAPACITOR POME 220K K5 63
11 2238	C.71	CAPACITOR NPO MI 47P G5 63
11 1510	C.72	CAPACITOR ELPRMI 22M M5 25
11 1510	C.80	CAPACITOR ELPRMI 22M M5 25
11 3730	C.81	CAPACITOR POME 330K K5 63
11 3730	C.82	CAPACITOR POME 330K K5 63
11 2242	C.83	CAPACITOR NPO MI 100P J5 63
11 2735	C.84	CAPACITOR CE MI 470P K5 63
11 2735	C.85	CAPACITOR CE MI 470P K5 63
11 2368	C.86	CAPACITOR N750MI 330P J5 63
11 22395	C.87	CAPACITOR NPO MI 56P G5 63
11 22395	C.88	CAPACITOR NPO MI 56P G5 63
11 3730	C.89	CAPACITOR POME 330K K5 63
11 2242	C.90	CAPACITOR NPO MI 100P J5 63
11 1571	C140	CAPACITOR ELPR 2M2 M5 350
11 4132	C141	CAPACITOR POMEFF 100K K 250
11 2774	C142	CAPACITOR CE MI 100K U5 63
11 2774	C143	CAPACITOR CE MI 100K U5 63
11 1478	C144	CAPACITOR ELPR 220M Z5 25
11 2831	C150	CAPACITOR CE DI 3K3 S 400
11 2831	C160	CAPACITOR CE DI 3K3 S 400
11 2831	C170	CAPACITOR CE DI 3K3 S 400
13 1621	D..7	DIODE 1N4148 SWITCH
13 1621	D.50	DIODE 1N4148 SWITCH
13 1621	D.51	DIODE 1N4148 SWITCH
13 1621	D.52	DIODE 1N4148 SWITCH
13 1621	D.53	DIODE 1N4148 SWITCH
13 1628	D150	DIODE BAW62 SWITCH
13 1621	D151	DIODE 1N4148 SWITCH
13 1628	D160	DIODE BAW62 SWITCH
13 1621	D161	DIODE 1N4148 SWITCH
13 1628	D170	DIODE BAW62 SWITCH
13 1621	D171	DIODE 1N4148 SWITCH
13 1636		DIODE BAT43 SD101 SCHOTTKY
30 6511	DL.1	DELAY LINE M P/S DL710,DL711
13 4002	I..1	INTEGRATED CIRCUIT 7812
13 2779	I..2	INTEGRATED CIRCUIT 3505 TDA
13 2778	I..3	INTEGRATED CIRCUIT 4555 TDA
13 2773	I..4	INTEGRATED CIRCUIT 4560/65 TDA
77 4212	L.40	COIL N40 C5 D0,125PALREC
77 4212	L.41	COIL N40 C5 D0,125PALREC
30 6024	L.42	CHOKE RA NS 10 UH
77 4212	L.43	COIL N40 C5 D0,125PALREC
77 4212	L.44	COIL N40 C5 D0,125PALREC
77 4212	L.50	COIL N40 C5 D0,125PALREC
77 3310	L.51	COIL N27,5 K5 D0,14 IF32
77 4212	L.52	COIL N40 C5 D0,125PALREC
77 4211	L.53	COIL N56 K5 D0,125 PHASE
77 4211	L.54	COIL N56 K5 D0,125 PHASE
10 6109	P..1	TRIMPOT CAMH 47K M 0W05
10 6107	P..2	TRIMPOT CAMH 10K M 0W05
10 6107	P..3	TRIMPOT CAMH 10K M 0W05
10 6107	P..4	TRIMPOT CAMH 10K M 0W05
10 6102	P.40	TRIMPOT CAMH 220E M 0W05
10 6105	P.41	TRIMPOT CAMH 2K2 M 0W05
10 6105	P.42	TRIMPOT CAMH 2K2 M 0W05
71 6226	PC..	PC 40 DEC QUAD+RGB ABL 761368
13 25146	Q..1	TRANSISTOR BF869
13 25146	Q..2	TRANSISTOR BF869
13 25146	Q..3	TRANSISTOR BF869
13 25146	Q..4	TRANSISTOR BF869
13 25146	Q..5	TRANSISTOR BF869
13 25146	Q..6	TRANSISTOR BF869
13 1429	Q..7	TRANSISTOR BC548B,BC238B
13 1429	Q.11	TRANSISTOR BC548B,BC238B
13 1429	Q.12	TRANSISTOR BC548B,BC238B
13 1429	Q.13	TRANSISTOR BC548B,BC238B
13 1429	Q.14	TRANSISTOR BC548B,BC238B
13 1429	Q.15	TRANSISTOR BC548B,BC238B
13 1429	Q.16	TRANSISTOR BC548B,BC238B
13 1429	Q.17	TRANSISTOR BC548B,BC238B
13 1429	Q.18	TRANSISTOR BC548B,BC238B
13 2507	Q.21	TRANSISTOR BF324
13 2507	Q.22	TRANSISTOR BF324
13 2507	Q.23	TRANSISTOR BF324
13 14311	Q.24	TRANSISTOR BC327
10 11231	R..5	RESISTOR CF 75E J 0W25

ITEM NO.	SIT.	DESCRIPTION			
10 1100	R..6	RESISTOR CF	1E	J	0W25
10 11231	R..7	RESISTOR CF	75E	J	0W25
10 11231	R..9	RESISTOR CF	75E	J	0W25
10 11231	R.11	RESISTOR CF	75E	J	0W25
10 1152	R.12	RESISTOR CF	22K	J	0W25
10 1155	R.13	RESISTOR CF	39K	J	0W25
10 1156	R.14	RESISTOR CF	47K	J	0W25
10 1159	R.15	RESISTOR CF	82K	J	0W25
10 1149	R.16	RESISTOR CF	12K	J	0W25
10 1160	R.17	RESISTOR CF	100K	J	0W25
10 1159	R.18	RESISTOR CF	82K	J	0W25
10 1124	R.23	RESISTOR CF	100E	J	0W25
10 1140	R.24	RESISTOR CF	2K2	J	0W25
10 1155	R.25	RESISTOR CF	39K	J	0W25
10 1145	R.26	RESISTOR CF	5K6	J	0W25
10 1153	R.27	RESISTOR CF	27K	J	0W25
10 1148	R.30	RESISTOR CF	10K	J	0W25
10 1141	R.31	RESISTOR CF	2K7	J	0W25
10 1137	R.42	RESISTOR CF	1K2	J	0W25
10 1131	R.43	RESISTOR CF	390E	J	0W25
10 1127	R.44	RESISTOR CF	180E	J	0W25
10 1130	R.49	RESISTOR CF	330E	J	0W25
10 1148	R.50	RESISTOR CF	10K	J	0W25
10 1153	R.51	RESISTOR CF	27K	J	0W25
10 1151	R.52	RESISTOR CF	18K	J	0W25
10 1136	R.53	RESISTOR CF	1K	J	0W25
10 1138	R.54	RESISTOR CF	1K5	J	0W25
10 1142	R.55	RESISTOR CF	3K3	J	0W25
10 1150	R.56	RESISTOR CF	15K	J	0W25
10 1140	R.60	RESISTOR CF	2K2	J	0W25
10 1150	R.62	RESISTOR CF	15K	J	0W25
10 1132	R.63	RESISTOR CF	470E	J	0W25
10 1127	R.64	RESISTOR CF	180E	J	0W25
10 1150	R.65	RESISTOR CF	15K	J	0W25
10 1140	R.66	RESISTOR CF	2K2	J	0W25
10 1122	R.70	RESISTOR CF	68E	J	0W25
10 1150	R.71	RESISTOR CF	15K	J	0W25
10 1122	R.72	RESISTOR CF	68E	J	0W25
10 1134	R.73	RESISTOR CF	680E	J	0W25
10 1140	R.74	RESISTOR CF	2K2	J	0W25
10 1144	R.75	RESISTOR CF	4K7	J	0W25
10 1144	R.76	RESISTOR CF	4K7	J	0W25
10 1144	R.77	RESISTOR CF	4K7	J	0W25
10 1134	R.78	RESISTOR CF	680E	J	0W25
10 1124	R.79	RESISTOR CF	100E	J	0W25
10 1128	R.80	RESISTOR CF	220E	J	0W25
10 1128	R.81	RESISTOR CF	220E	J	0W25
10 1137	R.82	RESISTOR CF	1K2	J	0W25
10 1136	R.83	RESISTOR CF	1K	J	0W25
10 1136	R.84	RESISTOR CF	1K	J	0W25
10 1148	R.90	RESISTOR CF	10K	J	0W25
10 1148	R.91	RESISTOR CF	10K	J	0W25
10 1148	R.92	RESISTOR CF	10K	J	0W25
10 1148	R.93	RESISTOR CF	10K	J	0W25
10 1144	R.94	RESISTOR CF	4K7	J	0W25
10 1148	R.95	RESISTOR CF	10K	J	0W25
10 1136	R.96	RESISTOR CF	1K	J	0W25
10 1150	R.97	RESISTOR CF	15K	J	0W25
10 1142	R.98	RESISTOR CF	3K3	J	0W25
10 1164	R.99	RESISTOR CF	220K	J	0W25
10 1124	R150	RESISTOR CF	100E	J	0W25
10 1246	R151	RESISTOR CF	6K8	J	0W50
10 1246	R152	RESISTOR CF	6K8	J	0W50
10 11369	R153	RESISTOR CFFUL	1K	J	0W25
10 1134	R154	RESISTOR CF	680E	J	0W25
10 1136	R157	RESISTOR CF	1K	J	0W25
10 3158	R159	RESISTOR MO	68K	J	0W70
10 1124	R160	RESISTOR CF	100E	J	0W25
10 1246	R161	RESISTOR CF	6K8	J	0W50
10 1246	R162	RESISTOR CF	6K8	J	0W50
10 11369	R163	RESISTOR CFFUL	1K	J	0W25
10 1134	R164	RESISTOR CF	680E	J	0W25
10 1136	R167	RESISTOR CF	1K	J	0W25
10 3158	R169	RESISTOR MO	68K	J	0W70
10 1124	R170	RESISTOR CF	100E	J	0W25
10 1246	R171	RESISTOR CF	6K8	J	0W50
10 1246	R172	RESISTOR CF	6K8	J	0W50
10 11369	R173	RESISTOR CFFUL	1K	J	0W25
10 1134	R174	RESISTOR CF	680E	J	0W25
10 1136	R177	RESISTOR CF	1K	J	0W25
10 3158	R179	RESISTOR MO	68K	J	0W70
10 1128	R180	RESISTOR CF	220E	J	0W25
10 1233	R182	RESISTOR CF	560E	J	0W50
10 1133	R184	RESISTOR CF	560E	J	0W25
10 1131	R185	RESISTOR CF	390E	J	0W25
10 1133	R186	RESISTOR CF	560E	J	0W25
10 1124		RESISTOR CF	100E	J	0W25
10 1142		RESISTOR CF	3K3	J	0W25
10 1164		RESISTOR CF	220K	J	0W25
10 1172		RESISTOR CF	1M	J	0W25
30 6816	XT.1	X-TAL 8,867 238 MHZ			
30 6849	XT.2	X-TAL 7,159 090 MHZ PCM 5MM			
76 1436		UN.VER PULS SHORTER LZ TCT			
76 1437		UN.RGB SLAVE OUTPUT LZ TCT			
31 3251	001.	CONNECTOR PIN MOBTE D0,8WIRE			
31 3578	002.	CONNECTOR MT MOBTE P 4 7,5			
31 35866	003.	CONNECTOR MT MOBTE P 7 2,5			
30 2061	004.	COIL CAN 10X10X12			
31 3584	005.	CONNECTOR MT MOBTE P 2 2,5			
31 33921	006.	CONNECTOR JUMP F TE P 2 2,5			
80 1001	007.	SCREENING DEC QUAD			
36 2121	008.	SCREW DIN7985 M 3 X 6 MP+			
36 7502	0081	WASHER DIN6798 A 3,2			
80 1456	0082	SPACER L25 H 5 M3 MS			
34 81147	1000	JUMPER INSULATED M 37,5 MM			

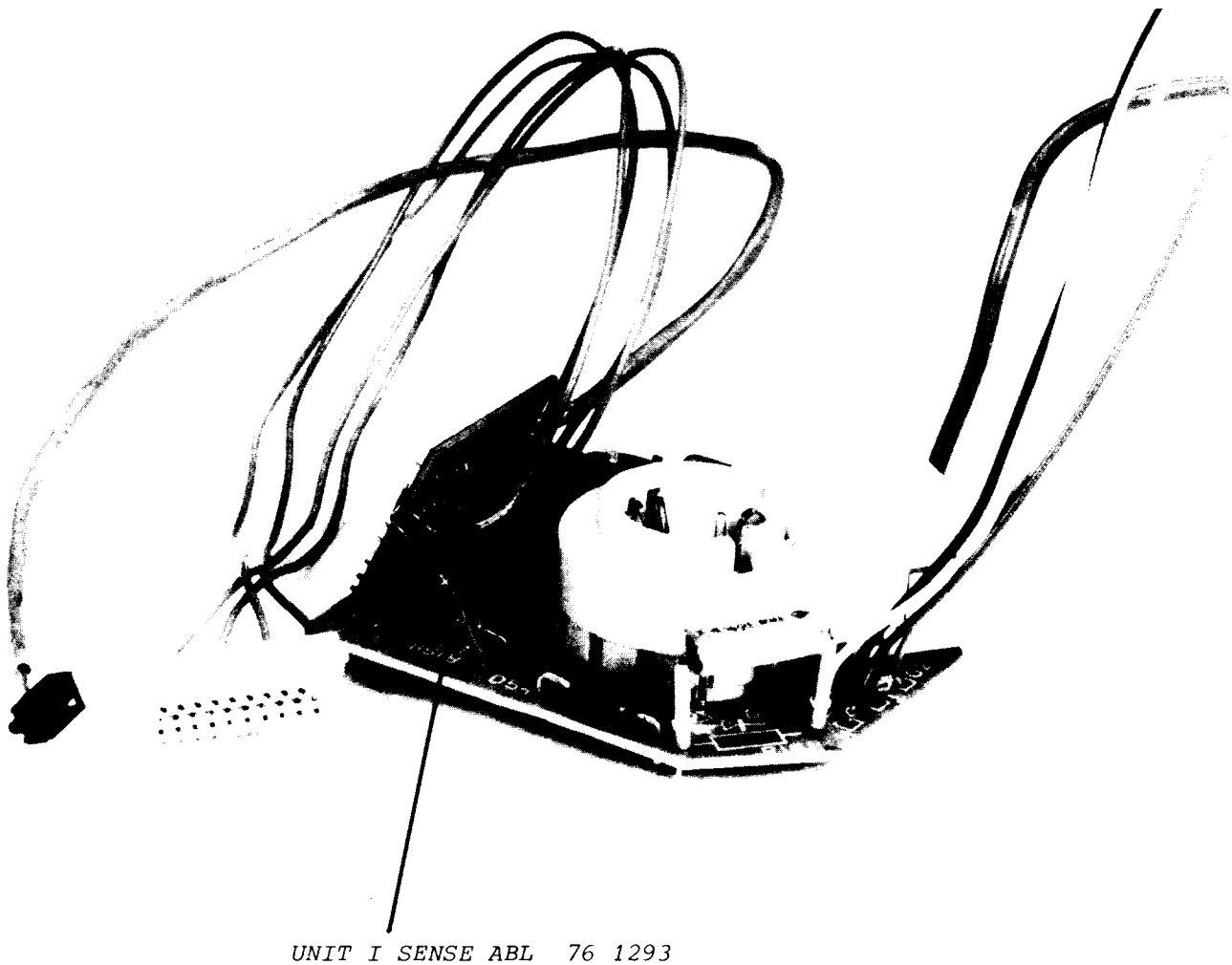

3279

ITEM NO.	SIT.	DESCRIPTION
11 3724	C..1	CAPACITOR POME 100K K5 63
11 1531	C..2	CAPACITOR ELPRMI 10M M5 35
11 2243	C..3	CAPACITOR NPO MI 120P J5 63
11 4100	C..4	CAPACITOR POMEFF 100K K 100
11 1476	C..5	CAPACITOR ELPR 47M Z5 25
11 2240	C..6	CAPACITOR NPO MI 68P J5 63
11 1500	C..7	CAPACITOR ELPRMI 47M M5 10
11 1157	C.10	CAPACITOR ELAX 22M Z 25
11 2774	C.11	CAPACITOR CE MI 100K U5 63
11 1476	C.12	CAPACITOR ELPR 47M Z5 25
11 1510	C.14	CAPACITOR ELPRMI 22M M5 25
11 2774	C.15	CAPACITOR CE MI 100K U5 63
11 1510	C.16	CAPACITOR ELPRMI 22M M5 25
11 22415	C.17	CAPACITOR NPO MI 82P J5 63
11 3724	C.19	CAPACITOR POME 100K K5 63
11 1476	C.20	CAPACITOR ELPR 47M Z5 25
11 2774	C.22	CAPACITOR CE MI 100K U5 63
11 1157	C.30	CAPACITOR ELAX 22M Z 25
11 2774	C.31	CAPACITOR CE MI 100K U5 63
11 1476	C.32	CAPACITOR ELPR 47M Z5 25
11 1510	C.34	CAPACITOR ELPRMI 22M M5 25
11 2774	C.35	CAPACITOR CE MI 100K U5 63
11 1510	C.36	CAPACITOR ELPRMI 22M M5 25
11 22415	C.37	CAPACITOR NPO MI 82P J5 63
11 1510	C.38	CAPACITOR ELPRMI 22M M5 25
11 3724	C.39	CAPACITOR POME 100K K5 63
11 1476	C.40	CAPACITOR ELPR 47M Z5 25
11 2774	C.42	CAPACITOR CE MI 100K U5 63
11 1157	C.50	CAPACITOR ELAX 22M Z 25
11 2774	C.51	CAPACITOR CE MI 100K U5 63
11 1476	C.52	CAPACITOR ELPR 47M Z5 25
11 1510	C.54	CAPACITOR ELPRMI 22M M5 25
11 2774	C.55	CAPACITOR CE MI 100K U5 63
11 1510	C.56	CAPACITOR ELPRMI 22M M5 25
11 22415	C.57	CAPACITOR NPO MI 82P J5 63
11 1510	C.58	CAPACITOR ELPRMI 22M M5 25
11 3724	C.59	CAPACITOR POME 100K K5 63
11 1476	C.60	CAPACITOR ELPR 47M Z5 25
11 2774	C.62	CAPACITOR CE MI 100K U5 63
11 7009	C.70	CAPACITOR TRIM 1,8-22P 160
11 2774	C.72	CAPACITOR CE MI 100K U5 63
11 4132	C.73	CAPACITOR POMEFF 100K K 250
11 2770	C.74	CAPACITOR CE MI 22K U5 63
11 7009	C.80	CAPACITOR TRIM 1,8-22P 160
11 2774	C.82	CAPACITOR CE MI 100K U5 63
11 4132	C.83	CAPACITOR POMEFF 100K K 250
11 2770	C.84	CAPACITOR CE MI 22K U5 63
11 7009	C.90	CAPACITOR TRIM 1,8-22P 160
11 2774	C.92	CAPACITOR CE MI 100K U5 63
11 4132	C.93	CAPACITOR POMEFF 100K K 250
11 1500	C.94	CAPACITOR ELPRMI 47M M5 10
11 4139	C100	CAPACITOR POMEFF 390K K 250
11 1510	C101	CAPACITOR ELPRMI 22M M5 25
13 1644	D..1	DIODE 1N4001 RECTIFIER
13 1621	D..2	DIODE 1N4148 SWITCH
13 1621	D..3	DIODE 1N4148 SWITCH
13 1621	D..4	DIODE 1N4148 SWITCH
13 1621	D..5	DIODE 1N4148 SWITCH
13 1621	D..6	DIODE 1N4148 SWITCH
13 1621	D..7	DIODE 1N4148 SWITCH
13 1621	D..8	DIODE 1N4148 SWITCH
13 1621	D.10	DIODE 1N4148 SWITCH
13 1637	D.11	DIODE BA158 SWITCH
13 1621	D.20	DIODE 1N4148 SWITCH
13 1621	D.30	DIODE 1N4148 SWITCH
13 1628	D.40	DIODE BAW62 SWITCH
13 1628	D.50	DIODE BAW62 SWITCH
13 1628	D.60	DIODE BAW62 SWITCH

ITEM NO.	SIT.	DESCRIPTION
13 2134	I..2	INTEGRATED CIRCUIT 3046 331TBA
13 2134	I..3	INTEGRATED CIRCUIT 3046 331TBA
13 2134	I..4	INTEGRATED CIRCUIT 3046 331TBA
77 4270	L..1	SPON 16,5 K5 D0,20
77 4270	L..2	SPON 16,5 K5 D0,20
77 4270	L..3	SPON 16,5 K5 D0,20
10 6724	P..1	TRIMPOT CEMH 200E K 0W50
10 6724	P..2	TRIMPOT CEMH 200E K 0W50
10 6724	P..3	TRIMPOT CEMH 200E K 0W50
10 6825	P..4	TRIMPOT CEMV 500E K 0W50
10 6825	P..5	TRIMPOT CEMV 500E K 0W50
10 6827	P..7	TRIMPOT CEMV 2K K 0W50
10 6827	P..8	TRIMPOT CEMV 2K K 0W50
10 6827	P..9	TRIMPOT CEMV 2K K 0W50
10 6833	P.10	TRIMPOT CEMV 100K K 0W50
71 6220	PC..	PC 40 RGB 40MC PCD16 761366
13 14295	Q..1	TRANSISTOR BC549B,
13 14295	Q..2	TRANSISTOR BC549B,
13 14181	Q..3	TRANSISTOR BC559B,BC309B
13 14295	Q..4	TRANSISTOR BC549B,
13 14295	Q..5	TRANSISTOR BC549B,
13 14295	Q..7	TRANSISTOR BC549B,
13 14181	Q..8	TRANSISTOR BC559B,BC309B
13 14295	Q..9	TRANSISTOR BC549B,
13 1411	Q.10	TRANSISTOR BC549C,BC239C
13 1491	Q.11	TRANSISTOR BSX20,2N2369
13 1411	Q.12	TRANSISTOR BC549C,BC239C
13 1491	Q.13	TRANSISTOR BSX20,2N2369
13 14182	Q.14	TRANSISTOR BC559C,BC309C
13 1411	Q.20	TRANSISTOR BC549C,BC239C
13 1491	Q.21	TRANSISTOR BSX20,2N2369
13 1411	Q.22	TRANSISTOR BC549C,BC239C
13 1491	Q.23	TRANSISTOR BSX20,2N2369
13 14182	Q.24	TRANSISTOR BC559C,BC309C
13 1411	Q.30	TRANSISTOR BC549C,BC239C
13 1491	Q.31	TRANSISTOR BSX20,2N2369
13 1411	Q.32	TRANSISTOR BC549C,BC239C
13 1491	Q.33	TRANSISTOR BSX20,2N2369
13 14182	Q.34	TRANSISTOR BC559C,BC309C
13 1491	Q.40	TRANSISTOR BSX20,2N2369
13 2586	Q.41	TRANSISTOR BFR95
13 1471	Q.42	TRANSISTOR BF458
13 1471	Q.43	TRANSISTOR BF458
13 1491	Q.50	TRANSISTOR BSX20,2N2369
13 2586	Q.51	TRANSISTOR BFR95
13 1471	Q.52	TRANSISTOR BF458
13 1471	Q.53	TRANSISTOR BF458
13 1491	Q.60	TRANSISTOR BSX20,2N2369
13 2586	Q.61	TRANSISTOR BFR95
13 1471	Q.62	TRANSISTOR BF458
13 1471	Q.63	TRANSISTOR BF458
13 14181	Q.64	TRANSISTOR BC559B,BC309B
13 14295	Q.65	TRANSISTOR BC549B,
10 1132	R..1	RESISTOR CF 470E J 0W25
10 1144	R..2	RESISTOR CF 4K7 J 0W25
10 1247	R..3	RESISTOR CF 8K2 J 0W50
10 1144	R..4	RESISTOR CF 4K7 J 0W25
10 1136	R..5	RESISTOR CF 1K J 0W25
10 1144	R..6	RESISTOR CF 4K7 J 0W25
10 1148	R..7	RESISTOR CF 10K J 0W25
10 1136	R..8	RESISTOR CF 1K J 0W25
10 1144	R..9	RESISTOR CF 4K7 J 0W25
10 1139	R.10	RESISTOR CF 1K8 J 0W25
10 1154	R.11	RESISTOR CF 33K J 0W25

ITEM NO.	SIT.	DESCRIPTION			
10 1152	R.12	RESISTOR CF	22K	J	0W25
10 1144	R.13	RESISTOR CF	4K7	J	0W25
10 1136	R.14	RESISTOR CF	1K	J	0W25
10 1150	R.18	RESISTOR CF	15K	J	0W25
10 1151	R.19	RESISTOR CF	18K	J	0W25
10 1146	R.20	RESISTOR CF	6K8	J	0W25
10 1136	R.21	RESISTOR CF	1K	J	0W25
10 1112	R.22	RESISTOR CF	10E	J	0W25
10 1145	R.23	RESISTOR CF	5K6	J	0W25
10 1151	R.24	RESISTOR CF	18K	J	0W25
10 1124	R.25	RESISTOR CF	100E	J	0W25
10 1148	R.26	RESISTOR CF	10K	J	0W25
10 1140	R.27	RESISTOR CF	2K2	J	0W25
10 11231	R.30	RESISTOR CF	75E	J	0W25
10 1116	R.31	RESISTOR CF	22E	J	0W25
10 1134	R.32	RESISTOR CF	680E	J	0W25
10 1132	R.33	RESISTOR CF	470E	J	0W25
10 1129	R.34	RESISTOR CF	270E	J	0W25
10 1140	R.35	RESISTOR CF	2K2	J	0W25
10 1140	R.36	RESISTOR CF	2K2	J	0W25
10 1140	R.37	RESISTOR CF	2K2	J	0W25
10 1148	R.38	RESISTOR CF	10K	J	0W25
10 1131	R.39	RESISTOR CF	390E	J	0W25
10 1135	R.40	RESISTOR CF	820E	J	0W25
10 1131	R.41	RESISTOR CF	390E	J	0W25
10 1120	R.42	RESISTOR CF	47E	J	0W25
10 1120	R.43	RESISTOR CF	47E	J	0W25
10 1134	R.44	RESISTOR CF	680E	J	0W25
10 1139	R.45	RESISTOR CF	1K8	J	0W25
10 1116	R.46	RESISTOR CF	22E	J	0W25
10 1125	R.47	RESISTOR CF	120E	J	0W25
10 1152	R.48	RESISTOR CF	22K	J	0W25
10 1144	R.49	RESISTOR CF	4K7	J	0W25
10 1130	R.50	RESISTOR CF	330E	J	0W25
10 1121	R.51	RESISTOR CF	56E	J	0W25
10 1116	R.53	RESISTOR CF	22E	J	0W25
10 1132	R.54	RESISTOR CF	470E	J	0W25
10 1124	R.55	RESISTOR CF	100E	J	0W25
10 1132	R.56	RESISTOR CF	470E	J	0W25
10 1126	R.57	RESISTOR CF	150E	J	0W25
10 11231	R.60	RESISTOR CF	75E	J	0W25
10 1116	R.61	RESISTOR CF	22E	J	0W25
10 1134	R.62	RESISTOR CF	680E	J	0W25
10 1132	R.63	RESISTOR CF	470E	J	0W25
10 1129	R.64	RESISTOR CF	270E	J	0W25
10 1140	R.65	RESISTOR CF	2K2	J	0W25
10 1140	R.66	RESISTOR CF	2K2	J	0W25
10 1140	R.67	RESISTOR CF	2K2	J	0W25
10 1148	R.68	RESISTOR CF	10K	J	0W25
10 1131	R.69	RESISTOR CF	390E	J	0W25
10 1135	R.70	RESISTOR CF	820E	J	0W25
10 1131	R.71	RESISTOR CF	390E	J	0W25
10 1120	R.72	RESISTOR CF	47E	J	0W25
10 1120	R.73	RESISTOR CF	47E	J	0W25
10 1139	R.75	RESISTOR CF	1K8	J	0W25
10 1116	R.76	RESISTOR CF	22E	J	0W25
10 1125	R.77	RESISTOR CF	120E	J	0W25
10 1152	R.78	RESISTOR CF	22K	J	0W25
10 1144	R.79	RESISTOR CF	4K7	J	0W25
10 1130	R.80	RESISTOR CF	330E	J	0W25
10 1121	R.81	RESISTOR CF	56E	J	0W25
10 1116	R.83	RESISTOR CF	22E	J	0W25
10 1132	R.84	RESISTOR CF	470E	J	0W25
10 1124	R.85	RESISTOR CF	100E	J	0W25
10 1132	R.86	RESISTOR CF	470E	J	0W25
10 11231	R.90	RESISTOR CF	75E	J	0W25
10 1116	R.91	RESISTOR CF	22E	J	0W25
10 1134	R.92	RESISTOR CF	680E	J	0W25
10 1132	R.93	RESISTOR CF	470E	J	0W25
10 1129	R.94	RESISTOR CF	270E	J	0W25
10 1140	R.95	RESISTOR CF	2K2	J	0W25
10 1140	R.96	RESISTOR CF	2K2	J	0W25
10 1140	R.97	RESISTOR CF	2K2	J	0W25
10 1148	R.98	RESISTOR CF	10K	J	0W25
10 1131	R.99	RESISTOR CF	390E	J	0W25
10 1135	R100	RESISTOR CF	820E	J	0W25
10 1131	R101	RESISTOR CF	390E	J	0W25
10 1120	R102	RESISTOR CF	47E	J	0W25
10 1120	R103	RESISTOR CF	47E	J	0W25
10 1139	R105	RESISTOR CF	1K8	J	0W25
10 1116	R106	RESISTOR CF	22E	J	0W25
10 1125	R107	RESISTOR CF	120E	J	0W25
10 1152	R108	RESISTOR CF	22K	J	0W25
10 1144	R109	RESISTOR CF	4K7	J	0W25
10 1130	R110	RESISTOR CF	330E	J	0W25
10 1121	R111	RESISTOR CF	56E	J	0W25
10 1116	R113	RESISTOR CF	22E	J	0W25
10 1132	R114	RESISTOR CF	470E	J	0W25
10 1124	R115	RESISTOR CF	100E	J	0W25
10 1132	R116	RESISTOR CF	470E	J	0W25
10 1135	R121	RESISTOR CF	820E	J	0W25
10 1132	R122	RESISTOR CF	470E	J	0W25
10 1119	R123	RESISTOR CF	39E	J	0W25
10 1132	R124	RESISTOR CF	470E	J	0W25
10 3240	R126	RESISTOR MO	2K2	J	1W50
10 3240	R127	RESISTOR MO	2K2	J	1W50
10 1121	R128	RESISTOR CF	56E	J	0W25
10 2148	R129	RESISTOR CC	10K	K	1W
10 1132	R133	RESISTOR CF	470E	J	0W25
10 1132	R135	RESISTOR CF	470E	J	0W25
10 2148	R136	RESISTOR CC	10K	K	1W
10 1130	R137	RESISTOR CF	330E	J	0W25
10 1135	R141	RESISTOR CF	820E	J	0W25
10 1132	R142	RESISTOR CF	470E	J	0W25
10 1119	R143	RESISTOR CF	39E	J	0W25
10 1132	R144	RESISTOR CF	470E	J	0W25
10 3240	R146	RESISTOR MO	2K2	J	1W50
10 3240	R147	RESISTOR MO	2K2	J	1W50
10 1121	R148	RESISTOR CF	56E	J	0W25
10 2148	R149	RESISTOR CC	10K	K	1W
10 1132	R153	RESISTOR CF	470E	J	0W25
10 1132	R155	RESISTOR CF	470E	J	0W25
10 2148	R156	RESISTOR CC	10K	K	1W
10 1130	R157	RESISTOR CF	330E	J	0W25
10 1135	R161	RESISTOR CF	820E	J	0W25
10 1132	R162	RESISTOR CF	470E	J	0W25
10 1119	R163	RESISTOR CF	39E	J	0W25
10 1132	R164	RESISTOR CF	470E	J	0W25
10 3240	R166	RESISTOR MO	2K2	J	1W50
10 3240	R167	RESISTOR MO	2K2	J	1W50
10 1121	R168	RESISTOR CF	56E	J	0W25
10 2148	R169	RESISTOR CC	10K	K	1W
10 1132	R173	RESISTOR CF	470E	J	0W25
10 1134	R175	RESISTOR CF	680E	J	0W25
10 2148	R176	RESISTOR CC	10K	K	1W
10 1136	R177	RESISTOR CF	1K	J	0W25
10 12169	R180	RESISTOR CFFUL	22E	J	0W50
10 1130	R190	RESISTOR CF	330E	J	0W25
10 1136	R191	RESISTOR CF	1K	J	0W25
10 1131	R192	RESISTOR CF	390E	J	0W25
13 1720	Z..1	DIODE ZENER 6V2	0W5	C	
13 1720	Z.39	DIODE ZENER 6V2	0W5	C	
13 1733	Z.40	DIODE ZENER 2V1	0W4	C	
13 1720	Z.49	DIODE ZENER 6V2	0W5	C	
13 1733	Z.50	DIODE ZENER 2V1	0W4	C	
13 1720	Z.59	DIODE ZENER 6V2	0W5	C	
13 1733	Z.60	DIODE ZENER 2V1	0W4	C	
31 3580	002.	CONNECTOR MT	MOBTE P 5 2,5		

ITEM NO.	SIT.	DESCRIPTION
80 1249	003.	HEATSINK 40 QUAD PCD
13 3019	0030	TRANSISTOR SET INSULAT TO-126
13 30192	0031	TRANSISTOR MICA INSULAT TO-126
36 2119	0032	SCREW DIN7985 M 2,5X10 MP+
36 61106	0033	NUT DIN934 M 2,5 HEXAGONAL
36 7600	0035	FIXING BLOC UNIVERSEL M3
36 7435	0036	RIVET AL AL AD34ABS D2,4
36 75256	0037	WASHER DIA 3,1 X 6,2 T0,6 J
36 2021	0038	SCREW DIN84 M 3 X 6 MP-
80 12922	004.	HEATSINK TO220 AL
36 2119	0041	SCREW DIN7985 M 2,5X10 MP+
13 3019	0042	TRANSISTOR SET INSULAT TO-126
36 75256	0043	WASHER DIA 3,1 X 6,2 T0,6 J
36 61106	0044	NUT DIN934 M 2,5 HEXAGONAL
13 3039	005.	SPACER L 8 D 4 D1,2 CER
31 53101	006.	CONNECTOR TAB MOBTE P 1 2,8
13 3013	010.	TRANSISTOR MOUNTING PAD TO-5
31 5315		CONNECTOR RIVET MOBTE D2 L14
13 30191		TRANSISTOR WASHER TO-126
13 30191		TRANSISTOR WASHER TO-126
13 30192		TRANSISTOR MICA INSULAT TO-126
13 30192		TRANSISTOR MICA INSULAT TO-126
13 30193		TRANSISTOR BUSH INSULAT TO-126
13 30193		TRANSISTOR BUSH INSULAT TO-126



UNIT I SENSE ABL 76 1293

CURRENT SENSE ABL BOARD — 76 1293

ITEM NO.	SIT.	DESCRIPTION
11 2741	C..1	CAPACITOR CE MI 1K5 K5 63
11 2741	C..2	CAPACITOR CE MI 1K5 K5 63
11 2741	C..3	CAPACITOR CE MI 1K5 K5 63
11 2240	C..4	CAPACITOR NPO MI 68P J5 63
13 1621	D..1	DIODE 1N4148 SWITCH
13 1621	D..2	DIODE 1N4148 SWITCH
13 1621	D..3	DIODE 1N4148 SWITCH
13 1621	D..4	DIODE 1N4148 SWITCH
71 6236	PC..	PC 40 CURRENT SENSE ABL 761293
13 2552	Q..1	TRANSISTOR BF423
13 2552	Q..2	TRANSISTOR BF423
13 2552	Q..3	TRANSISTOR BF423
10 1171	R..1	RESISTOR CF 820K J 0W25
10 1171	R..2	RESISTOR CF 820K J 0W25
10 1171	R..3	RESISTOR CF 820K J 0W25
10 1179	R..4	RESISTOR CF 3M9 K 0W25
10 1179	R..5	RESISTOR CF 3M9 K 0W25
31 3284	001.	CONNECTOR CIS MOBSE P 1 REEL

CURRENT SENSE ABL BOARD — 76 12938

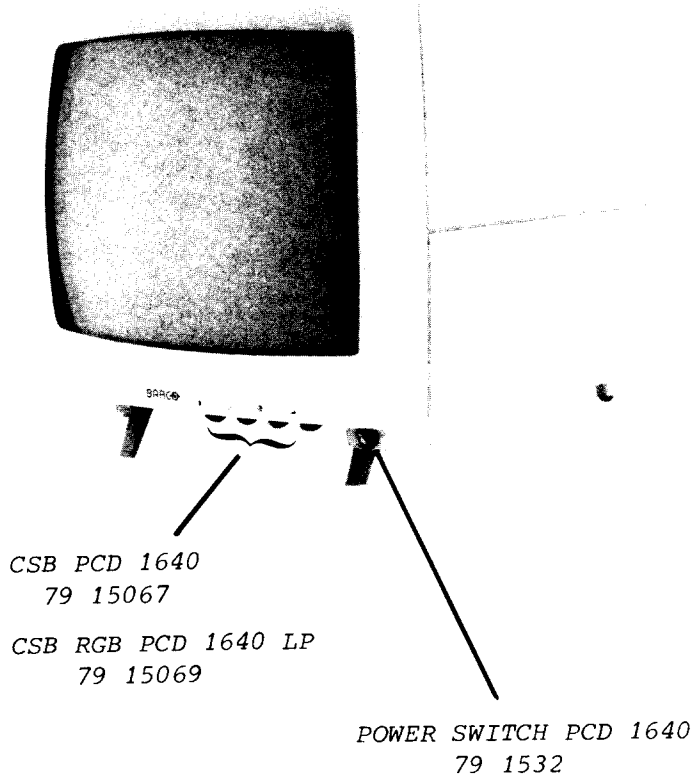
ITEM NO.	SIT.	DESCRIPTION
11 2741	C..1	CAPACITOR CE MI 1K5 K5 63
11 2741	C..2	CAPACITOR CE MI 1K5 K5 63
11 2741	C..3	CAPACITOR CE MI 1K5 K5 63
11 2240	C..4	CAPACITOR NPO MI 68P J5 63
13 1621	D..1	DIODE 1N4148 SWITCH
13 1621	D..2	DIODE 1N4148 SWITCH
13 1621	D..3	DIODE 1N4148 SWITCH
13 1621	D..4	DIODE 1N4148 SWITCH
71 6236	PC..	PC 40 CURRENT SENSE ABL 761293
13 2552	Q..1	TRANSISTOR BF423
13 2552	Q..2	TRANSISTOR BF423
13 2552	Q..3	TRANSISTOR BF423
10 1171	R..1	RESISTOR CF 820K J 0W25
10 1171	R..2	RESISTOR CF 820K J 0W25
10 1171	R..3	RESISTOR CF 820K J 0W25
10 1175	R..4	RESISTOR CF 1M8 K 0W25
10 1176	R..5	RESISTOR CF 2M2 J 0W25
31 3284	001.	CONNECTOR CIS MOBSE P 1 REEL

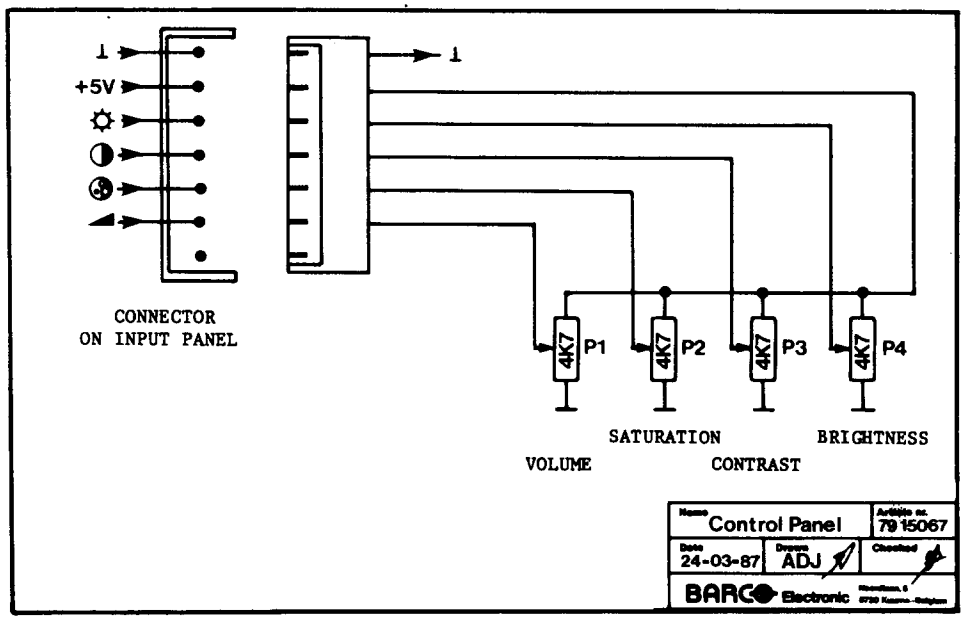
CURRENT SENSE ABL BOARD — 76 12934

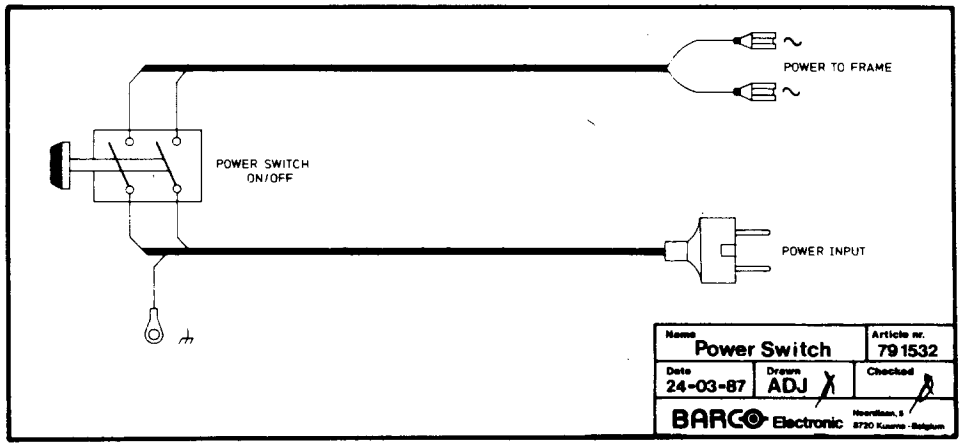
ITEM NO.	SIT.	DESCRIPTION
11 2741	C..1	CAPACITOR CE MI 1K5 K5 63
11 2741	C..2	CAPACITOR CE MI 1K5 K5 63
11 2741	C..3	CAPACITOR CE MI 1K5 K5 63
11 2240	C..4	CAPACITOR NPO MI 68P J5 63
13 1621	D..1	DIODE 1N4148 SWITCH
13 1621	D..2	DIODE 1N4148 SWITCH
13 1621	D..3	DIODE 1N4148 SWITCH
13 1621	D..4	DIODE 1N4148 SWITCH
71 6236	PC..	PC 40 CURRENT SENSE ABL 761293
13 2552	Q..1	TRANSISTOR BF423
13 2552	Q..2	TRANSISTOR BF423
13 2552	Q..3	TRANSISTOR BF423
10 1171	R..1	RESISTOR CF 820K J 0W25
10 1171	R..2	RESISTOR CF 820K J 0W25
10 1171	R..3	RESISTOR CF 820K J 0W25
10 1179	R..4	RESISTOR CF 3M9 K 0W25
10 1179	R..5	RESISTOR CF 3M9 K 0W25
31 3284	001.	CONNECTOR CIS MOBSE P 1 REEL

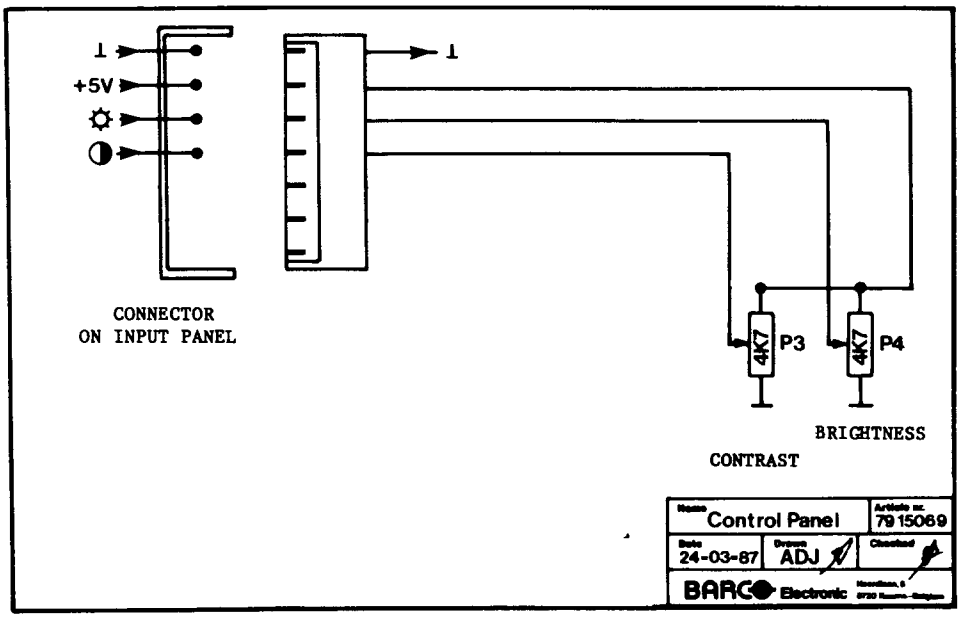
ITEM NO.	SIT.	DESCRIPTION
11 2741	C..1	CAPACITOR CE MI 1K5 K5 63
11 2741	C..2	CAPACITOR CE MI 1K5 K5 63
11 2741	C..3	CAPACITOR CE MI 1K5 K5 63
11 2240	C..4	CAPACITOR NPO MI 68P J5 63
13 1621	D..1	DIODE 1N4148 SWITCH
13 1621	D..2	DIODE 1N4148 SWITCH
13 1621	D..3	DIODE 1N4148 SWITCH
13 1621	D..4	DIODE 1N4148 SWITCH
71 6236	PC..	PC 40 CURRENT SENSE ABL 761293
13 2552	Q..1	TRANSISTOR BF423
13 2552	Q..2	TRANSISTOR BF423
13 2552	Q..3	TRANSISTOR BF423
10 1171	R..1	RESISTOR CF 820K J 0W25
10 1171	R..2	RESISTOR CF 820K J 0W25
10 1171	R..3	RESISTOR CF 820K J 0W25
10 1174	R..4	RESISTOR CF 1M5 J 0W25
10 1175	R..5	RESISTOR CF 1M8 K 0W25
31 3284	001.	CONNECTOR CIS MOBSE P 1 REEL

CSB RGB PCD 1640 LP	79 15069
CSB PCD 1640	79 15067
POWER SWITCH PCD 1640	79 1532




⊥
+5V
CONNECTOR
ON INPUT PANEL
4K7 P1
4K7 P2
4K7 P3
4K7 P4
VOLUME
SATURATION
CONTRAST
BRIGHTNESS
Name Control Panel
Article nr. 79 15067
Date 24-03-87
Drawn ADJ
Checked
BARCO Electronic


POWER TO FRAME
POWER SWITCH
ON/OFF
POWER INPUT
Name Power Switch
Article nr. 791532
Date 24-03-87
Drawn ADJ
Checked
BARCO Electronic


⊥
+5V
CONNECTOR
ON INPUT PANEL
4K7 P3
4K7 P4
CONTRAST
BRIGHTNESS
Name Control Panel
Article nr. 79 15069
Date 24-03-87
Drawn ADJ
Checked
BARCO Electronic

CONTROL SWITCH BOARD PCD 1640

79 15067

ITEM NO.	SIT.	DESCRIPTION	ITEM NO.	SIT.	DESCRIPTION
10 71262	P...	POTMETER CAM 4K7 MA 0W05	72 1764	002.	KNOB TURN TCT1640
80 0493	001.	CSB PANEL PCD1640	31 2006	0021	SPRING D6X4 KNOB

CONTROL SWITCH BOARD RGB PCD 1640 LP

79 15069

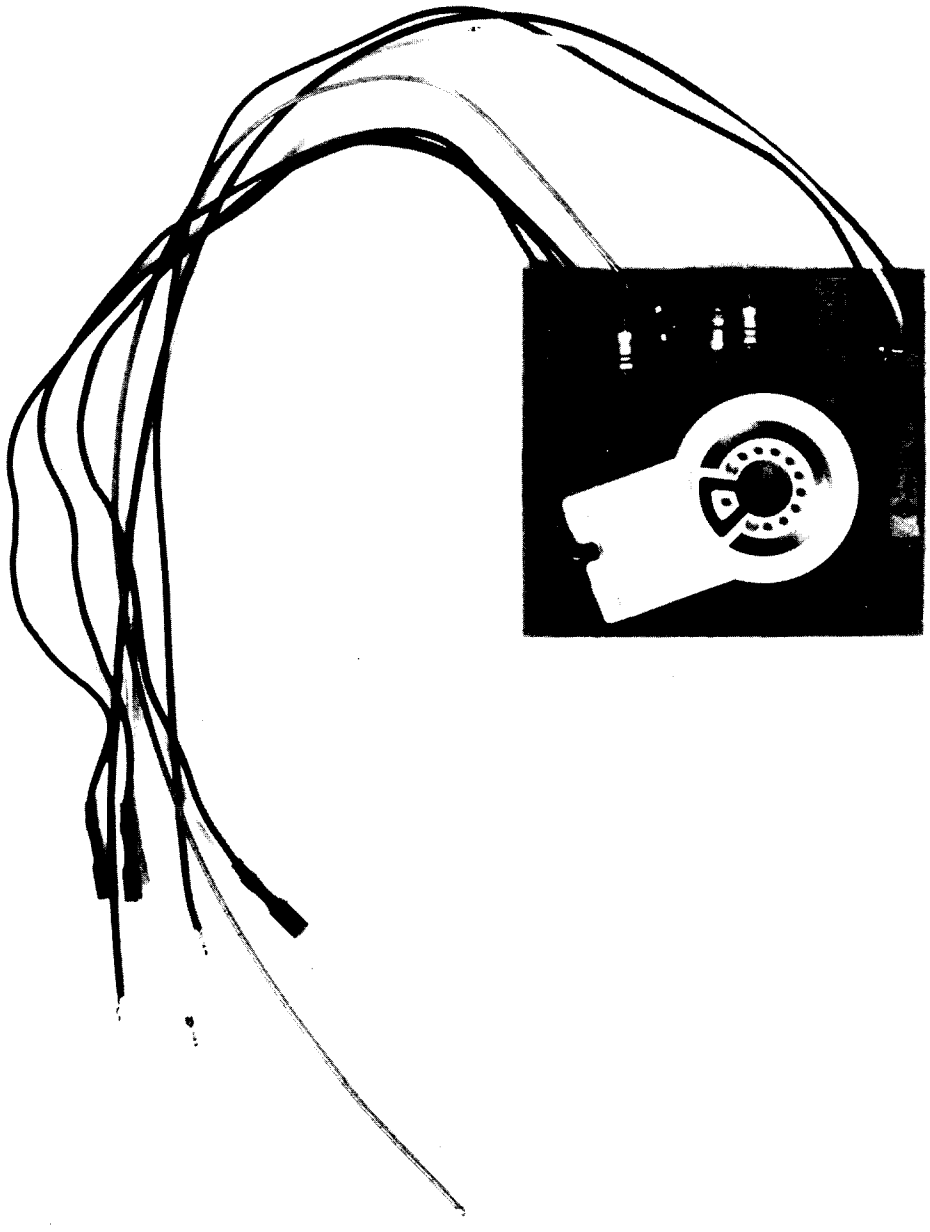
ITEM NO.	SIT.	DESCRIPTION	ITEM NO.	SIT.	DESCRIPTION
10 71262	P...	POTMETER CAM 4K7 MA 0W05	72 1764	002.	KNOB TURN TCT1640
80 0493	001.	CSB PANEL PCD1640	31 2006	0021	SPRING D6X4 KNOB

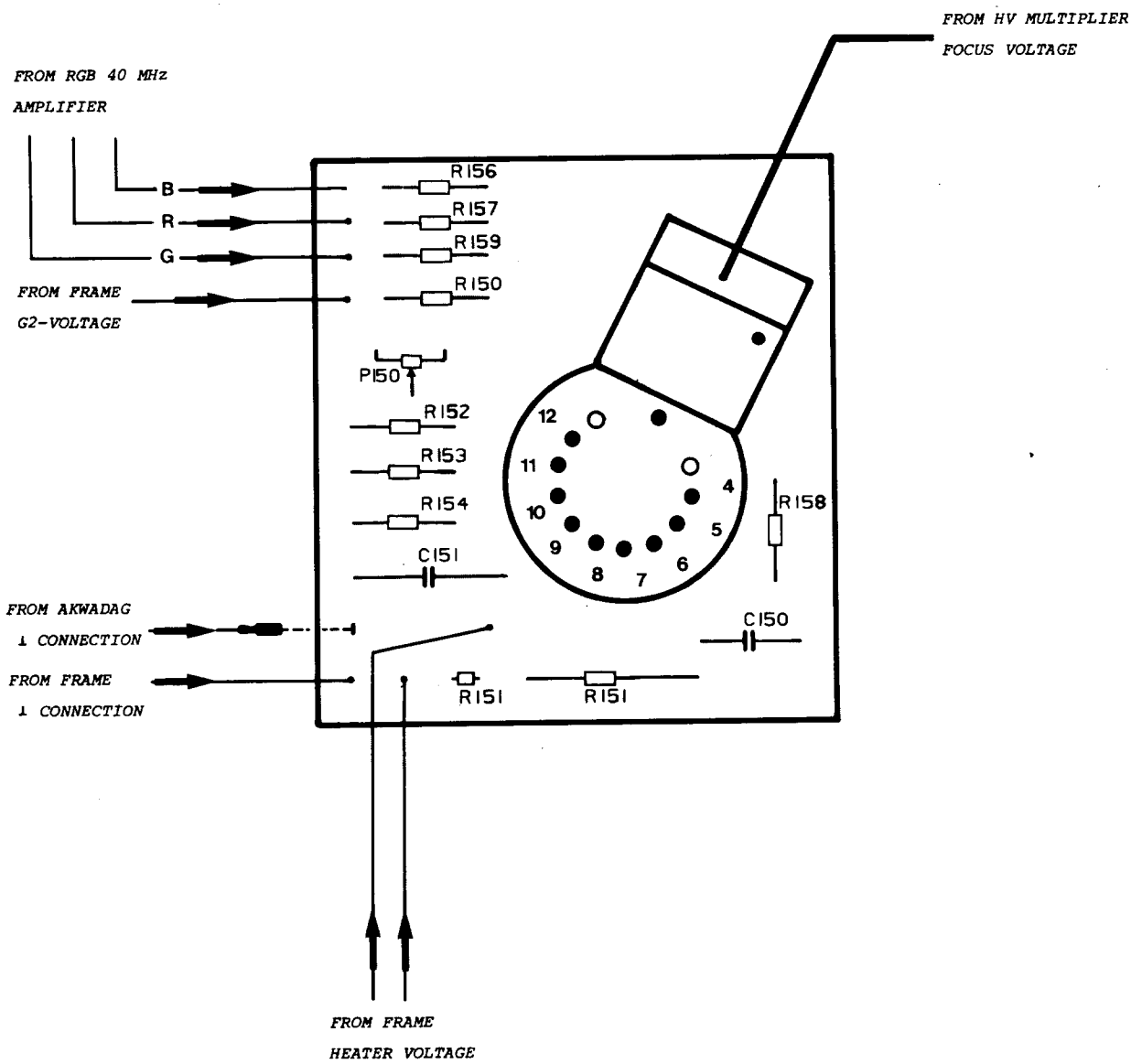
MAINS SWITCH PCD 1640

79 1532

ITEM NO.	SIT.	DESCRIPTION	ITEM NO.	SIT.	DESCRIPTION
32 47831	001.	SWITCH MAINS 2A PCD1640	31 5332	1001	SOLDERLUG SCREW 1TAG D4.2 L22
34 6991	002.	SLEEVE SHRINK D19/9,5	32 6110	2000	CABLE MAINS 2X0,75MM2 HO3VVH2F
32 6112	1000	CORD MAINS 3X0,75MM2 1XEUR	31 34521	2001	CONNECTOR REC I FOWTE P 1 4,8

79 1532
79 15069



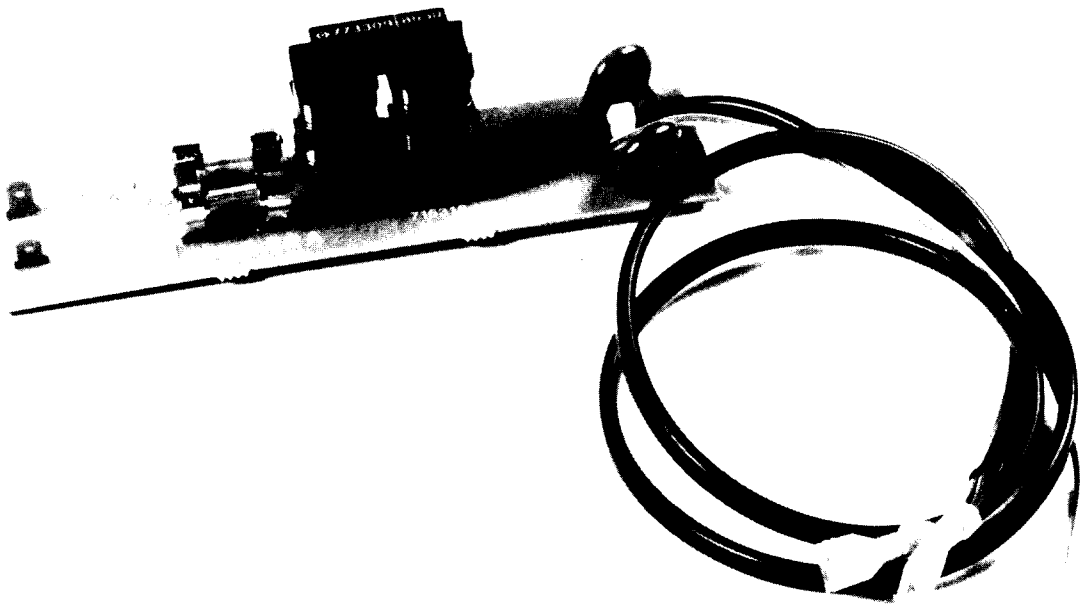


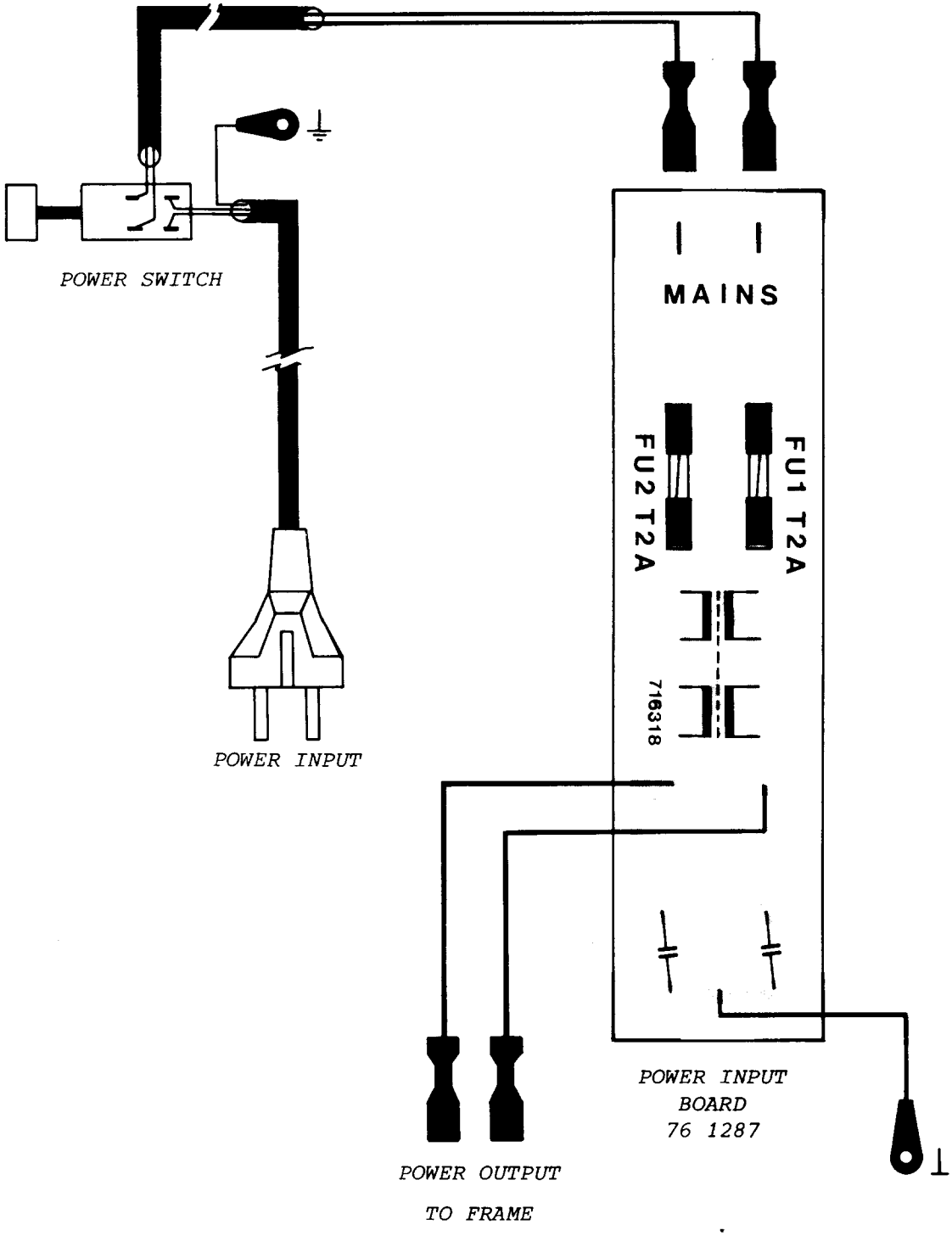
Name	Article nr.
CRT Soc PCD LP	76 1375
Date: 24-02-87 / Drawn: ADJ	Checked

BARCO Electronic Noordlaan 5 8720 Kuurne Belgium

MODIFICATIONS RESERVED

ITEM NO.	SIT.	DESCRIPTION
11 4162	C150	CAPACITOR POMEFF 100K K 400
11 4602	C151	CAPACITOR POHVPO 47K M 1000
71 6317	PC..	PC 40 CRT SOCKET PCD16 761375
10 6215	P150	TRIMPOT CASV 2M2 M 0W15
10 4656	R150	RESISTOR HV 1M2 J 0W50
10 3700	R151	RESISTOR WW H 0E47 K 5W
10 41728	R151	RESISTOR WWFV 1E8 K 4W
10 4668	R152	RESISTOR HV 3M9 J 0W50
10 4674	R153	RESISTOR HV 6M8 J 0W50
10 1248	R154	RESISTOR CF 10K J 0W50
10 1230	R156	RESISTOR CF 330E J 0W50
10 1230	R157	RESISTOR CF 330E J 0W50
10 1262	R158	RESISTOR CF 150K J 0W50
10 1230	R159	RESISTOR CF 330E J 0W50
31 1038	001.	TUBE SOCKET 420DZB22 130993
31 5315	002.	CONNECTOR RIVET MOBTE D2 L14
31 5310	003.	CONNECTOR TAB MOBTE P 1 2,8



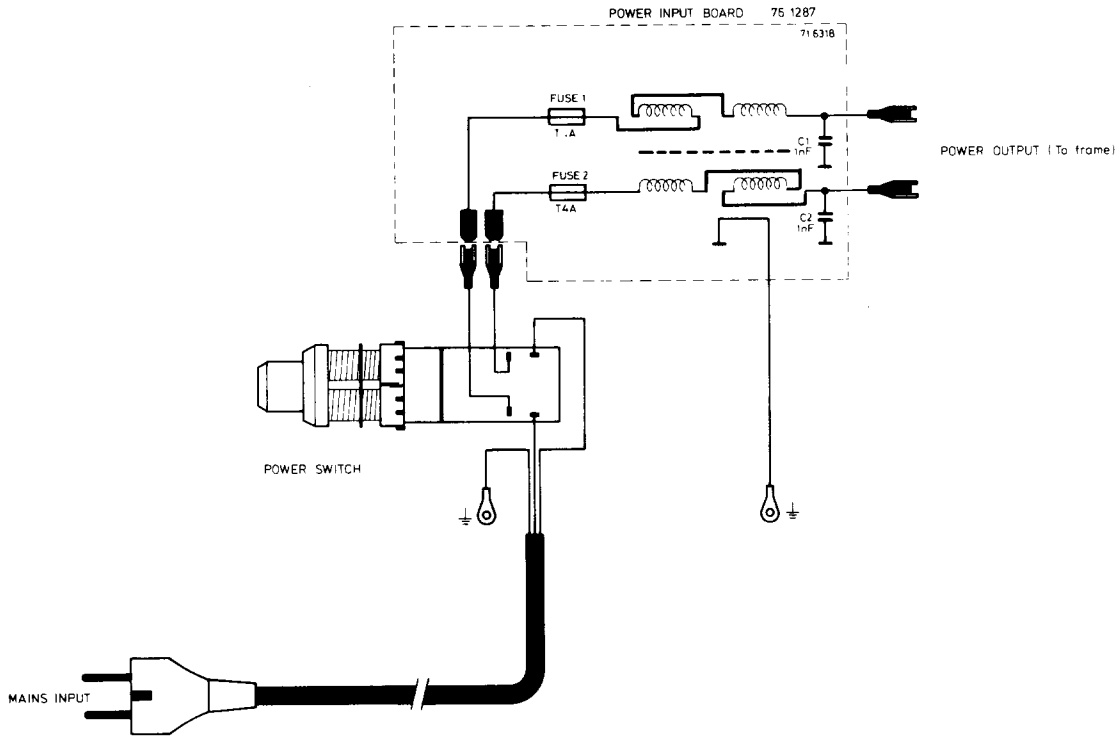


Name		Article nr.
POWER INPUT		76 1287
Date	Drawn	Checked
19/10/87	PG	TV

BARCO Electronic Noordlaan 5 8720 Kuurne Belgium

66 1287

MODIFICATIONS RESERVED



Name		Article nr.
POWER INPUT		76 1287
Date	Drawn	Checked
19/10/87	PG	TV

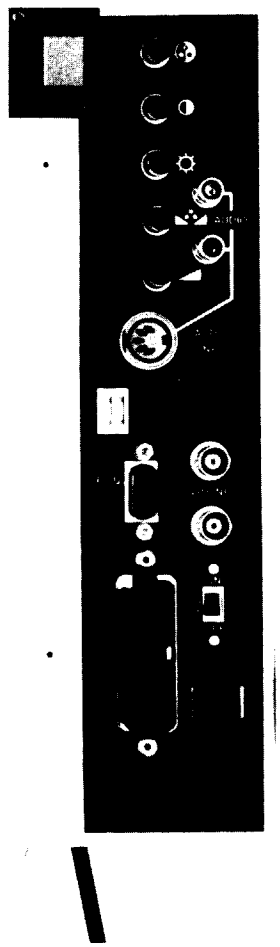
BARCO Electronic Noordlaan 5 8720 Kuurne Belgium

66 1287

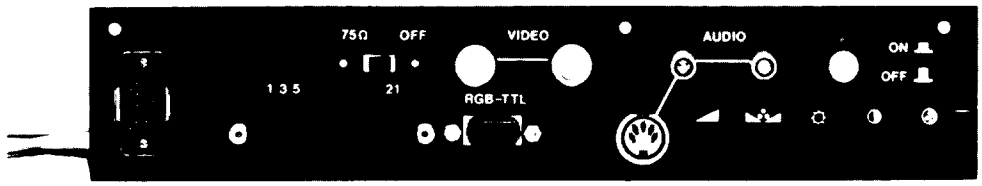
MODIFICATIONS RESERVED

ITEM NO.	SIT.	DESCRIPTION
11 4720	C...	CAPACITOR CESA Y 1K M 400
31 41041	F..1	FUSE 4A 5X20 SLOW
31 41041	F..2	FUSE 4A 5X20 SLOW
77 3309	L...	COIL CHOKE MAINS 32
71 6318	PC..	PC 40 MAINS CHOKE PCD16 761287
31 4501	001.	FUSE 5X20 CLIPS
31 3454	003.	CONNECTOR TAB MOBTE P 1 4,8
34 8019	004.	WIRE TIE L100

76 1194



76 1332



ITEM NO.	SIT.	DESCRIPTION
11 1680	C..1	CAPACITOR ELRABI 10M V 40
11 1190	C..2	CAPACITOR ELAX 100M T 40
11 22415	C..3	CAPACITOR NPO MI 82P J5 63
11 1159	C.10	CAPACITOR ELAX 47M T 25
11 1184	C.11	CAPACITOR ELAX 4M7 Z 40
11 4100	C.12	CAPACITOR POMEFF 100K K 100
11 4100	C.13	CAPACITOR POMEFF 100K K 100
11 1147	C.20	CAPACITOR ELAX 100M T 16
11 2835	C.21	CAPACITOR CE DI 6K8 S 400
11 2827	C.22	CAPACITOR CE DI 1K5 S 400
11 1147	C.23	CAPACITOR ELAX 100M T 16
11 1149	C.24	CAPACITOR ELAX 470M T 16
11 4100	C.25	CAPACITOR POMEFF 100K K 100
11 1159	C.26	CAPACITOR ELAX 47M T 25
11 1164	C.27	CAPACITOR ELAX 1000M T 25
11 11565	C.28	CAPACITOR ELAX 10M Z 25
11 1532		CAPACITOR ELPRMI 22M M5 35
11 2743		CAPACITOR CE MI 2K2 K5 63
13 1644	D.20	DIODE 1N4001 RECTIFIER
13 1644	D.21	DIODE 1N4001 RECTIFIER
13 1621	D.22	DIODE 1N4148 SWITCH
13 1621	D.23	DIODE 1N4148 SWITCH
13 1621	D.24	DIODE 1N4148 SWITCH
13 1621	D.25	DIODE 1N4148 SWITCH
13 1621	D.26	DIODE 1N4148 SWITCH
13 2190	I.10	INTEGRATED CIRCUIT 120U TBA
13 2744	I.20	INTEGRATED CIRCUIT 810S TBA
10 7167	P.40	POTMETER CARV 4K7 M 0W20
10 7167	P.41	POTMETER CARV 4K7 M 0W20
10 7167	P.42	POTMETER CARV 4K7 M 0W20
10 7167	P.43	POTMETER CARV 4K7 M 0W20
10 7167	P.44	POTMETER CARV 4K7 M 0W20
71 5765	PC..	PC 40 PAN CONT I/O AC 761330
13 14295	Q..1	TRANSISTOR BC549B,
13 14181	Q..2	TRANSISTOR BC559B,BC309B
13 14181	Q..3	TRANSISTOR BC559B,BC309B
13 14181	Q..4	TRANSISTOR BC559B,BC309B
13 14181	Q..5	TRANSISTOR BC559B,BC309B
13 1491	Q..6	TRANSISTOR BSX20,2N2369
13 1491	Q..7	TRANSISTOR BSX20,2N2369
13 1491	Q..8	TRANSISTOR BSX20,2N2369
13 1491	Q..9	TRANSISTOR BSX20,2N2369
13 1491	Q.10	TRANSISTOR BSX20,2N2369
10 11249	R..1	RESISTOR CFFUL 100E J 0W25
10 1124	R..2	RESISTOR CF 100E J 0W25
10 1164	R..3	RESISTOR CF 220K J 0W25
10 1156	R..4	RESISTOR CF 47K J 0W25
10 1136	R..5	RESISTOR CF 1K J 0W25
10 1132	R..6	RESISTOR CF 470E J 0W25
10 1126	R..7	RESISTOR CF 150E J 0W25
10 1122	R..8	RESISTOR CF 68E J 0W25
10 11309	R.10	RESISTOR CFFUL 330E J 0W25
10 1147	R.11	RESISTOR CF 8K2 J 0W25
10 1140	R.12	RESISTOR CF 2K2 J 0W25
10 1144	R.13	RESISTOR CF 4K7 J 0W25
10 1138	R.14	RESISTOR CF 1K5 J 0W25
10 3620	R.20	RESISTOR WW H 4E7 K 4W
10 1335	R.21	RESISTOR CF 820E J 1W
10 1224	R.22	RESISTOR CF 100E J 0W50
10 1160	R.23	RESISTOR CF 100K J 0W25
10 1100	R.24	RESISTOR CF 1E J 0W25
10 1127	R.25	RESISTOR CF 180E J 0W25
10 11231	R.30	RESISTOR CF 75E J 0W25
10 1129	R.31	RESISTOR CF 270E J 0W25
10 1129	R.32	RESISTOR CF 270E J 0W25
10 1129	R.33	RESISTOR CF 270E J 0W25
10 1129	R.34	RESISTOR CF 270E J 0W25
10 1140	R.35	RESISTOR CF 2K2 J 0W25
10 1235	R.36	RESISTOR CF 820E J 0W50
10 1144	R.40	RESISTOR CF 4K7 J 0W25
10 1140	R.41	RESISTOR CF 2K2 J 0W25
10 1140	R.42	RESISTOR CF 2K2 J 0W25
10 1140	R.43	RESISTOR CF 2K2 J 0W25
10 1135	R.44	RESISTOR CF 1K J 0W25
10 1136	R.45	RESISTOR CF 1K J 0W25
10 1136	R.46	RESISTOR CF 1K J 0W25
10 1136	R.47	RESISTOR CF 1K J 0W25
10 1136	R.48	RESISTOR CF 1K J 0W25
10 1136	R.49	RESISTOR CF 1K J 0W25
10 1136	R.50	RESISTOR CF 1K J 0W25
10 1136	R.51	RESISTOR CF 1K J 0W25
10 1140	R.52	RESISTOR CF 2K2 J 0W25
10 1138	R.54	RESISTOR CF 1K5 J 0W25
10 1148	R.55	RESISTOR CF 10K J 0W25
10 1148	R.56	RESISTOR CF 10K J 0W25
10 1159	R.60	RESISTOR CF 82K J 0W25
10 1159	R.61	RESISTOR CF 82K J 0W25
10 1159	R.62	RESISTOR CF 82K J 0W25
10 1152	R.63	RESISTOR CF 22K J 0W25
10 1152	R.64	RESISTOR CF 22K J 0W25
10 1152	R.65	RESISTOR CF 22K J 0W25
10 1137	R.66	RESISTOR CF 1K2 J 0W25
10 1144	R.67	RESISTOR CF 4K7 J 0W25
31 3575	001.	CONNECTOR EDGE FOBTE P12 2,5
31 3594	0011	CONNECTOR EDGE FOBTE P13 2,5
31 3545	002.	CONNECTOR PERI FOBSE P21
36 7455	0021	RIVET AL FE TAP/D/BS46 D3,2
31 3138	003.	CONNECTOR HONDA FOBTE P 8
31 3140	004.	CONNECTOR BNC FOCTE P 1 R S
72 1684	0041	ISOLSPACER BNC 40
72 1685	0042	ISOLSPACER BNC 40
80 0762	0043	SOLDERLUG SCREW 1TAG D9,8 L24
31 3111	005.	CONNECTOR AUDIO FOBSE P 5 45
32 4158	006.	SWITCH SLIDE 2U PC FIX PC
80 0212	007.	PANEL CSB I/O DCD2740
31 3547	008.	CONNECTOR MT MOBSE P 2 2,5
72 1696	0101	ISOL SWITCH CS40
36 3602	0102	SCREW DIN7981 2,9X 9,5 MP+C
72 1795	0103	KNOB PUSH RED DCD2740
72 1834	0104	KNOB CENTER DCD2740
36 3511	0105	SCREW DIN7971 2,2X 9,5 MP-C
36 3510	0106	SCREW DIN7971 2,2X 6,5 MP-C
34 20091	011.	WIRE TIE FIX 5 TM2
36 7454	0111	RIVET AL FE TAP/D/BS44 D3,2
34 8019	0112	WIRE TIE L100
31 35011	012.	CONNECTOR DE09 FOBSE P 9
80 0893	0121	CONNECTOR D SCREWLOCK
36 7435	0122	RIVET AL AL AD34ABS D2,4
32 4127	013.	SWITCH SLIDE 4A
31 31021	014.	CONNECTOR CINCH FOBTE P 1
31 3251	015.	CONNECTOR PIN MOBTE D0,8WIRE
31 3276	0151	CONNECTOR WAFER MOBTE P10 2,5
31 33921	0151	CONNECTOR JUMP F TE P 2 2,5
42 0734	020.	KNOB TURN BLACK
72 1784	0201	KNOB TURN AXE 10,25MM
34 81082	8108	JUMPER INSULATED M 22,5 MM
31 3366		CONNECTOR CIS MOBSE P 1 REEL
71 6510		PC 40 PAN SUB 761194

ITEM NO.	SIT.	DESCRIPTION
11 1680	C..1	CAPACITOR ELRABI 10M V 40
11 1190	C..2	CAPACITOR ELAX 100M T 40
11 22415	C..3	CAPACITOR NPO MI 82P J5 63
11 1159	C.10	CAPACITOR ELAX 47M T 25
11 1184	C.11	CAPACITOR ELAX 4M7 Z 40
11 4100	C.12	CAPACITOR POMEFF 100K K 100
11 4100	C.13	CAPACITOR POMEFF 100K K 100
11 1147	C.20	CAPACITOR ELAX 100M T 16
11 2835	C.21	CAPACITOR CE DI 6K8 S 400
11 2827	C.22	CAPACITOR CE DI 1K5 S 400
11 1147	C.23	CAPACITOR ELAX 100M T 16
11 1149	C.24	CAPACITOR ELAX 470M T 16
11 4100	C.25	CAPACITOR POMEFF 100K K 100
11 1159	C.26	CAPACITOR ELAX 47M T 25
11 1164	C.27	CAPACITOR ELAX 1000M T 25
11 11565	C.28	CAPACITOR ELAX 10M Z 25
11 1532		CAPACITOR ELPRMI 22M M5 35
11 2743		CAPACITOR CE MI 2K2 K5 63
13 1644	D.20	DIODE 1N4001 RECTIFIER
13 1644	D.21	DIODE 1N4001 RECTIFIER
13 1621	D.22	DIODE 1N4148 SWITCH
13 1621	D.23	DIODE 1N4148 SWITCH
13 1621	D.24	DIODE 1N4148 SWITCH
13 1621	D.25	DIODE 1N4148 SWITCH
13 1621	D.26	DIODE 1N4148 SWITCH
13 2190	I.10	INTEGRATED CIRCUIT 120U TBA
13 2744	I.20	INTEGRATED CIRCUIT 810S TBA
10 7167	P.40	POTMETER CARV 4K7 M 0W20
10 7167	P.41	POTMETER CARV 4K7 M 0W20
10 7167	P.42	POTMETER CARV 4K7 M 0W20
10 7167	P.43	POTMETER CARV 4K7 M 0W20
10 7167	P.44	POTMETER CARV 4K7 M 0W20
71 5765	PC..	PC 40 PAN CONT I/O AC 761330
13 14295	Q..1	TRANSISTOR BC549B,
13 14181	Q..2	TRANSISTOR BC559B,BC309B
13 14181	Q..3	TRANSISTOR BC559B,BC309B
13 14181	Q..4	TRANSISTOR BC559B,BC309B
13 14181	Q..5	TRANSISTOR BC559B,BC309B
13 1491	Q..6	TRANSISTOR BSX20,2N2369
13 1491	Q..7	TRANSISTOR BSX20,2N2369
13 1491	Q..8	TRANSISTOR BSX20,2N2369
13 1491	Q..9	TRANSISTOR BSX20,2N2369
13 1491	Q.10	TRANSISTOR BSX20,2N2369
10 11249	R..1	RESISTOR CFFUL 100E J 0W25
10 1124	R..2	RESISTOR CF 100E J 0W25
10 1164	R..3	RESISTOR CF 220K J 0W25
10 1156	R..4	RESISTOR CF 47K J 0W25
10 1136	R..5	RESISTOR CF 1K J 0W25
10 1132	R..6	RESISTOR CF 470E J 0W25
10 1126	R..7	RESISTOR CF 150E J 0W25
10 1122	R..8	RESISTOR CF 68E J 0W25
10 11309	R.10	RESISTOR CFFUL 330E J 0W25
10 1147	R.11	RESISTOR CF 8K2 J 0W25
10 1140	R.12	RESISTOR CF 2K2 J 0W25
10 1144	R.13	RESISTOR CF 4K7 J 0W25
10 1138	R.14	RESISTOR CF 1K5 J 0W25

ITEM NO.	SIT.	DESCRIPTION
10 3620	R.20	RESISTOR WW H 4E7 K 4W
10 1335	R.21	RESISTOR CF 820E J 1W
10 1224	R.22	RESISTOR CF 100E J 0W50
10 1160	R.23	RESISTOR CF 100K J 0W25
10 1100	R.24	RESISTOR CF 1E J 0W25
10 1127	R.25	RESISTOR CF 180E J 0W25
10 11231	R.30	RESISTOR CF 75E J 0W25
10 1129	R.31	RESISTOR CF 270E J 0W25
10 1129	R.32	RESISTOR CF 270E J 0W25
10 1129	R.33	RESISTOR CF 270E J 0W25
10 1129	R.34	RESISTOR CF 270E J 0W25
10 1140	R.35	RESISTOR CF 2K2 J 0W25
10 1235	R.36	RESISTOR CF 820E J 0W50
10 1144	R.40	RESISTOR CF 4K7 J 0W25
10 1140	R.41	RESISTOR CF 2K2 J 0W25
10 1140	R.42	RESISTOR CF 2K2 J 0W25
10 1140	R.43	RESISTOR CF 2K2 J 0W25
10 1136	R.44	RESISTOR CF 1K J 0W25
10 1136	R.45	RESISTOR CF 1K J 0W25
10 1136	R.46	RESISTOR CF 1K J 0W25
10 1136	R.47	RESISTOR CF 1K J 0W25
10 1136	R.48	RESISTOR CF 1K J 0W25
10 1136	R.49	RESISTOR CF 1K J 0W25
10 1136	R.50	RESISTOR CF 1K J 0W25
10 1136	R.51	RESISTOR CF 1K J 0W25
10 1140	R.52	RESISTOR CF 2K2 J 0W25
10 1138	R.54	RESISTOR CF 1K5 J 0W25
10 1148	R.55	RESISTOR CF 10K J 0W25
10 1148	R.56	RESISTOR CF 10K J 0W25
10 1159	R.60	RESISTOR CF 82K J 0W25
10 1159	R.61	RESISTOR CF 82K J 0W25
10 1159	R.62	RESISTOR CF 82K J 0W25
10 1152	R.63	RESISTOR CF 22K J 0W25
10 1152	R.64	RESISTOR CF 22K J 0W25
10 1152	R.65	RESISTOR CF 22K J 0W25
10 1137	R.66	RESISTOR CF 1K2 J 0W25
10 1144	R.67	RESISTOR CF 4K7 J 0W25
31 3545	002.	CONNECTOR PERI FOBSE P21
36 7455	0021	RIVET AL FE TAP/D/BS46 D3,2
31 3138	003.	CONNECTOR HONDA FOBTE P 8
31 3140	004.	CONNECTOR BNC FOCTE P 1 R S
72 1684	0041	ISOLSPACER BNC 40
72 1685	0042	ISOLSPACER BNC 40
80 0762	0043	SOLDERLUG SCREW 1TAG D9,8 L24
31 3111	005.	CONNECTOR AUDIO FOBSE P 5 45
32 4158	006.	SWITCH SLIDE 2U PC FIX PC
80 0376	007.	PANEL CSB I/O DCD1640
31 3547	008.	CONNECTOR MT MOBSE P 2 2,5
31 35011	012.	CONNECTOR DE09 FOBSE P 9
80 0893	0121	CONNECTOR D SCREWLOCK
32 4127	013.	SWITCH SLIDE 4A
31 31021	014.	CONNECTOR CINCH FOBTE P 1
31 3251	015.	CONNECTOR PIN MOBTE D0,8WIRE
31 3276	0151	CONNECTOR WAFER MOBTE P10 2,5
31 33921	0151	CONNECTOR JUMP F TE P 2 2,5
32 4783	0160	SWITCH MAINS 2A VISION
34 8019	0170	WIRE TIE L100
42 0734	020.	KNOB TURN BLACK
72 1784	0201	KNOB TURN AXE 10,25MM
34 81082	8108	JUMPER INSULATED M 22,5 MM

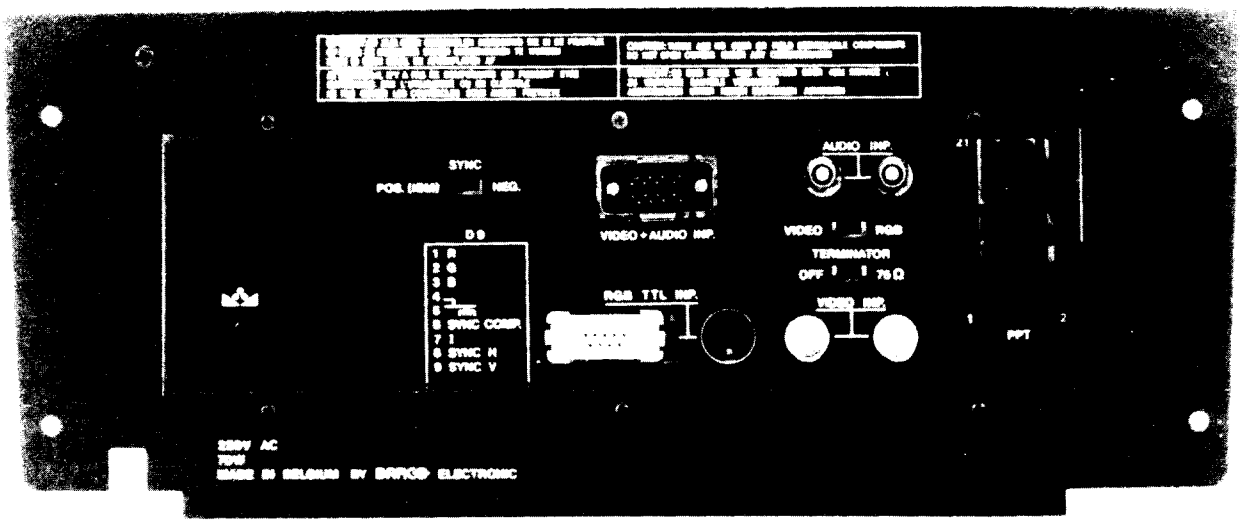
In/Output module +controls DCD 2740 Q Data 76 11948

Picture not available at time of printing.

SIT.	ITEM NO.	DESCRIPTION
PC..	71 5765	PC 40 PAN CONT I/O AC 761330
	71 6510	PC 40 PAN SUB 761194
C..1	11 1680	CAP ELRABI 10M V 40
C..2	11 1190	CAP ELAX 100M T 40
C..3	11 22415	CAP NPO MI 82P J5 63
C.10	11 1159	CAP ELAX 47M T 25
C.11	11 1184	CAP ELAX 4M7 Z 40
C.12	11 4100	CAP POMEFF 100K K 100
C.13	11 4100	CAP POMEFF 100K K 100
C.20	11 1147	CAP ELAX 100M T 16
C.21	11 2835	CAP CE DI 6K8 S 400
C.22	11 2827	CAP CE DI 1K5 S 400
C.23	11 1147	CAP ELAX 100M T 16
C.24	11 1149	CAP ELAX 470M T 16
C.25	11 4100	CAP POMEFF 100K K 100
C.26	11 1159	CAP ELAX 47M T 25
C.27	11 1164	CAP ELAX 1000M T 25
C.28	11 11565	CAP ELAX 10M Z 25
D.20	13 1644	DIODE 1N4001 RECTIFIER
D.21	13 1644	DIODE 1N4001 RECTIFIER
D.22	13 1621	DIODE 1N4148 SWITCH
D.23	13 1621	DIODE 1N4148 SWITCH
D.24	13 1621	DIODE 1N4148 SWITCH
D.25	13 1621	DIODE 1N4148 SWITCH
D.26	13 1621	DIODE 1N4148 SWITCH
I.10	13 2190	IC 120U TBA
I.20	13 2744	IC 810S TBA
P.40	10 7167	POTMETER CARV 4K7 M 0W20
P.41	10 7167	POTMETER CARV 4K7 M 0W20
P.42	10 7167	POTMETER CARV 4K7 M 0W20
P.43	10 7167	POTMETER CARV 4K7 M 0W20
P.44	10 7167	POTMETER CARV 4K7 M 0W20
Q..1	13 14295	TSTR BC549B,
Q..2	13 14181	TSTR BC559B,BC309B
Q..3	13 14181	TSTR BC559B,BC309B
Q..4	13 14181	TSTR BC559B,BC309B
Q..5	13 14181	TSTR BC559B,BC309B
Q..6	13 1491	TSTR BSX20,2N2369
Q..7	13 1491	TSTR BSX20,2N2369
Q..8	13 1491	TSTR BSX20,2N2369
Q..9	13 1491	TSTR BSX20,2N2369
Q.10	13 1491	TSTR BSX20,2N2369
R..1	10 11249	RES CFFUL 100E J 0W25
R..2	10 1124	RES CF 100E J 0W25

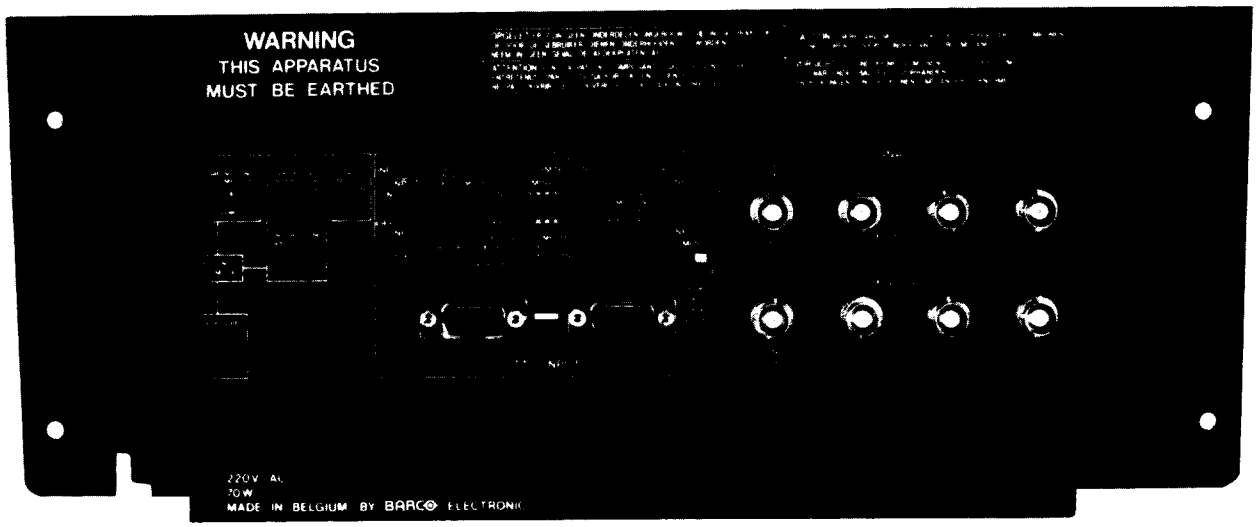
R..3	10	1164	RES CF	220K	J	0W25
R..4	10	1156	RES CF	47K	J	0W25
R..5	10	1136	RES CF	1K	J	0W25
R..6	10	1132	RES CF	470E	J	0W25
R..7	10	1126	RES CF	150E	J	0W25
R..8	10	1122	RES CF	68E	J	0W25
R.10	10	11309	RES CFFUL	330E	J	0W25
R.11	10	1147	RES CF	8K2	J	0W25
R.12	10	1140	RES CF	2K2	J	0W25
R.13	10	1144	RES CF	4K7	J	0W25
R.14	10	1138	RES CF	1K5	J	0W25
R.20	10	3620	RES WW H	4E7	K	4W
R.21	10	1335	RES CF	820E	J	1W
R.22	10	1224	RES CF	100E	J	0W50
R.23	10	1160	RES CF	100K	J	0W25
R.24	10	1100	RES CF	1E	J	0W25
R.25	10	1127	RES CF	180E	J	0W25
R.30	10	11231	RES CF	75E	J	0W25
R.31	10	1129	RES CF	270E	J	0W25
R.32	10	1129	RES CF	270E	J	0W25
R.33	10	1129	RES CF	270E	J	0W25
R.34	10	1129	RES CF	270E	J	0W25
R.35	10	1140	RES CF	2K2	J	0W25
R.36	10	1235	RES CF	820E	J	0W50
R.40	10	1144	RES CF	4K7	J	0W25
R.41	10	1140	RES CF	2K2	J	0W25
R.42	10	1140	RES CF	2K2	J	0W25
R.43	10	1140	RES CF	2K2	J	0W25
R.44	10	1136	RES CF	1K	J	0W25
R.45	10	1136	RES CF	1K	J	0W25
R.46	10	1136	RES CF	1K	J	0W25
R.47	10	1136	RES CF	1K	J	0W25
R.48	10	1136	RES CF	1K	J	0W25
R.49	10	1136	RES CF	1K	J	0W25
R.50	10	1136	RES CF	1K	J	0W25
R.51	10	1136	RES CF	1K	J	0W25
R.52	10	1140	RES CF	2K2	J	0W25
R.54	10	1138	RES CF	1K5	J	0W25
R.55	10	1148	RES CF	10K	J	0W25
R.56	10	1148	RES CF	10K	J	0W25
R.60	10	1159	RES CF	82K	J	0W25
R.61	10	1159	RES CF	82K	J	0W25
R.62	10	1159	RES CF	82K	J	0W25
R.63	10	1152	RES CF	22K	J	0W25
R.64	10	1152	RES CF	22K	J	0W25
R.65	10	1152	RES CF	22K	J	0W25
R.66	10	1137	RES CF	1K2	J	0W25
R.67	10	1144	RES CF	4K7	J	0W25

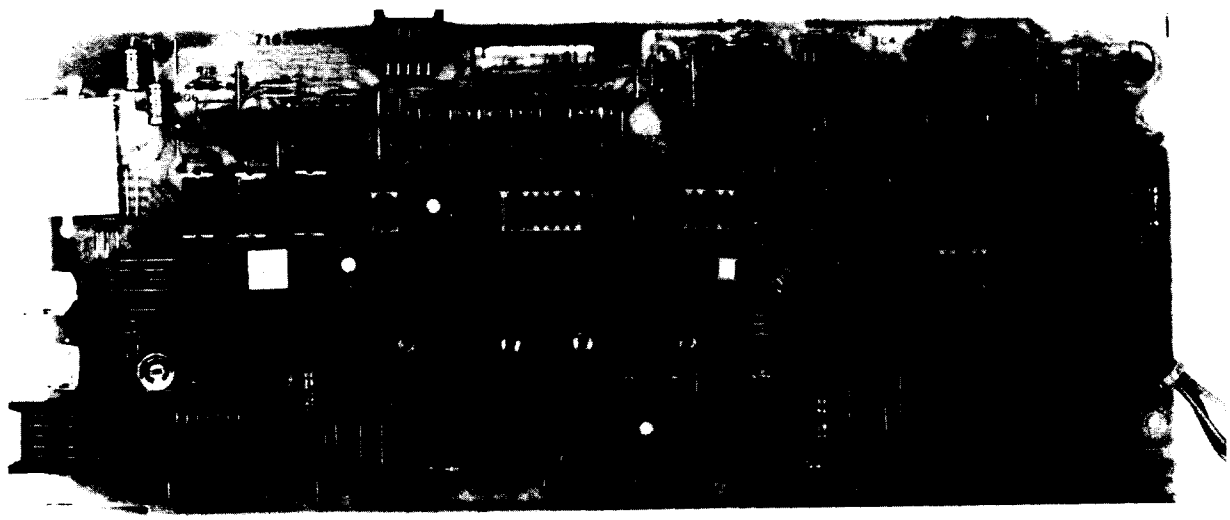
001.	31 3575	CONN EDGE FBT P12 2,5
0011	31 3594	CONN EDGE FBT P13 2,5
002.	31 3545	CONN PERI FBS P21
0021	36 7455	RIVET AL FE TAP/D/BS46 D3,2
004.	31 3140	CONN BNC FCT P 1 50E R S
0041	72 1684	CONN BNC ISOL SPACER
0042	72 1685	ISOLSPACER BNC 40
0043	80 0762	SOLDERLUG SCREW 1TAG D9,8 L24
007.	80 2118	DPL CSB DCD2740 RGBS I/O
008.	31 3547	CONN MT MBS P 2 2,5
009.	31 30973	CONN MAINS MCT A 3 PMF
0091	36 1914	SCREW DIN965 M 3 X10 MC+
0092	36 7502	WASHER DIN6798 A 3,2
0093	36 6102	NUT DIN934 M 3 HEXAGONAL
0102	36 3602	SCREW DIN7981 2,9X 9,5 MP+C
0103	72 1795	KNOB PUSH RED DCD2740
0104	72 1834	KNOB CENTER DCD2740
0105	36 3511	SCREW DIN7971 2,2X 9,5 MP-C
0106	36 3510	SCREW DIN7971 2,2X 6,5 MP-C
0112	34 8019	WIRE TIE L100
012.	31 35011	CONN DE09 FBS P 9
0121	80 0893X	CONN D SCREWLOCK L11
0122	36 7435	RIVET AL AL AD34ABS D2,4
014.	31 31022	CONN CINCH FBT P 1 TAG
0151	31 3276	CONN WAFER MBT P10 2,5
0151	31 33921	CONN JUMP FMT P 2 2,5
020.	72 2065	KNOP TRIMPOT RECTANGULAR OCM
021.	32 4175	SWITCH SLIDE 2U TAGS FIX 19MM
0210	36 2101	SCREW DIN7985 M 2 X 4 MP+
8108	34 81082	JUMPER INSULATED M 22,5 MM
015.	31 3251	CONN PIN MBT D0,8WIRE
8100	34 8100	JUMPER 0,6 M AUTOMAT
	31 3366	CONN CIS MBS P 1 REEL


SYNC
POS.
NEG.
D9
1 R
2 G
3 B
4
5
6 SYNC COMP.
7
8 SYNC H
9 SYNC V
VIDEO + AUDIO INP.
RGB TTL INP.
AUDIO INP.
VIDEO
RGB
TERMINATOR
OFF
75 Ω
VIDEO INP.
PPT

ITEM NO.	SIT.	DESCRIPTION
11 1680	C..1	CAPACITOR ELRABI 10M V 40
11 1190	C..2	CAPACITOR ELAX 100M T 40
11 22415	C..3	CAPACITOR NPO MI 82P J5 63
11 1680	C..4	CAPACITOR ELRABI 10M V 40
11 1159	C.10	CAPACITOR ELAX 47M T 25
11 1184	C.11	CAPACITOR ELAX 4M7 Z 40
11 3724	C.12	CAPACITOR POME 100K K5 63
11 3724	C.13	CAPACITOR POME 100K K5 63
11 2762	C.14	CAPACITOR CE MI 4K7 U5 63
11 2762	C.15	CAPACITOR CE MI 4K7 U5 63
11 1147	C.20	CAPACITOR ELAX 100M T 16
11 2835	C.21	CAPACITOR CE DI 6K8 S 400
11 2741	C.22	CAPACITOR CE MI 1K5 K5 63
11 1190	C.23	CAPACITOR ELAX 100M T 40
11 1149	C.24	CAPACITOR ELAX 470M T 16
11 3724	C.25	CAPACITOR POME 100K K5 63
11 1159	C.26	CAPACITOR ELAX 47M T 25
11 1164	C.27	CAPACITOR ELAX 1000M T 25
11 11565	C.28	CAPACITOR ELAX 10M Z 25
11 1477		CAPACITOR ELPR 100M Z5 25
13 1644	D.20	DIODE 1N4001 RECTIFIER
13 1644	D.21	DIODE 1N4001 RECTIFIER
13 1621	D.22	DIODE 1N4148 SWITCH
13 1621	D.23	DIODE 1N4148 SWITCH
13 1621	D.24	DIODE 1N4148 SWITCH
13 2744	I.10	INTEGRATED CIRCUIT 810S TBA
13 2190	I.20	INTEGRATED CIRCUIT 120U TBA
10 7150	P..1	POTMETER CAM 4K7 MA OW15
71 5853	PC..	PC 40 INP OUTP PCD16 761340
13 14295	Q..1	TRANSISTOR BC549B,
13 14181	Q..2	TRANSISTOR BC559B,BC309B
13 14181	Q..3	TRANSISTOR BC559B,BC309B
13 14181	Q..4	TRANSISTOR BC559B,BC309B
13 14181	Q..5	TRANSISTOR BC559B,BC309B
13 1491	Q..6	TRANSISTOR BSX20,2N2369
13 1491	Q..7	TRANSISTOR BSX20,2N2369
13 1491	Q..8	TRANSISTOR BSX20,2N2369
13 1491	Q..9	TRANSISTOR BSX20,2N2369
13 1491	Q.10	TRANSISTOR BSX20,2N2369
10 1124	R..1	RESISTOR CF 100E J 0W25
10 1124	R..2	RESISTOR CF 100E J 0W25
10 1164	R..3	RESISTOR CF 220K J 0W25
10 1156	R..4	RESISTOR CF 47K J 0W25
10 1136	R..5	RESISTOR CF 1K J 0W25
10 1132	R..6	RESISTOR CF 470E J 0W25
10 1126	R..7	RESISTOR CF 150E J 0W25
10 1122	R..8	RESISTOR CF 68E J 0W25
10 1149	R..9	RESISTOR CF 12K J 0W25
10 1130	R.10	RESISTOR CF 330E J 0W25
10 1143	R.12	RESISTOR CF 3K9 J 0W25
10 1155	R.13	RESISTOR CF 39K J 0W25
10 1141	R.14	RESISTOR CF 2K7 J 0W25
10 1129	R.16	RESISTOR CF 270E J 0W25
10 1235	R.17	RESISTOR CF 820E J 0W50
10 1159	R.18	RESISTOR CF 82K J 0W25
10 1149	R.19	RESISTOR CF 12K J 0W25
10 3620	R.20	RESISTOR WW H 4E7 K 4W
10 1335	R.21	RESISTOR CF 820E J 1W
10 1224	R.22	RESISTOR CF 100E J 0W50
10 1160	R.23	RESISTOR CF 100K J 0W25
10 1100	R.24	RESISTOR CF 1E J 0W25
10 1127	R.25	RESISTOR CF 180E J 0W25
10 11231	R.30	RESISTOR CF 75E J 0W25
10 1129	R.31	RESISTOR CF 270E J 0W25

ITEM NO.	SIT.	DESCRIPTION
10 1129	R.32	RESISTOR CF 270E J 0W25
10 1129	R.33	RESISTOR CF 270E J 0W25
10 1139	R.34	RESISTOR CF 1K8 J 0W25
10 1147	R.35	RESISTOR CF 8K2 J 0W25
10 1133	R.40	RESISTOR CF 560E J 0W25
10 1140	R.41	RESISTOR CF 2K2 J 0W25
10 1140	R.42	RESISTOR CF 2K2 J 0W25
10 1140	R.43	RESISTOR CF 2K2 J 0W25
10 1136	R.44	RESISTOR CF 1K J 0W25
10 1136	R.45	RESISTOR CF 1K J 0W25
10 1136	R.46	RESISTOR CF 1K J 0W25
10 1136	R.47	RESISTOR CF 1K J 0W25
10 1136	R.48	RESISTOR CF 1K J 0W25
10 1136	R.49	RESISTOR CF 1K J 0W25
10 1136	R.50	RESISTOR CF 1K J 0W25
10 1136	R.51	RESISTOR CF 1K J 0W25
10 1148	R.52	RESISTOR CF 10K J 0W25
10 1142	R.54	RESISTOR CF 3K3 J 0W25
10 1136	R.55	RESISTOR CF 1K J 0W25
10 1148	R.56	RESISTOR CF 10K J 0W25
10 1152	R.60	RESISTOR CF 22K J 0W25
10 1148	R.61	RESISTOR CF 10K J 0W25
10 1148	R.62	RESISTOR CF 10K J 0W25
10 1152	R.63	RESISTOR CF 22K J 0W25
10 1148	R.64	RESISTOR CF 10K J 0W25
10 1152	R.65	RESISTOR CF 22K J 0W25
10 1143	R.66	RESISTOR CF 3K9 J 0W25
10 1136	R.67	RESISTOR CF 1K J 0W25
10 1129	R.70	RESISTOR CF 270E J 0W25
10 1129	R.71	RESISTOR CF 270E J 0W25
10 1130		RESISTOR CF 330E J 0W25
10 1144		RESISTOR CF 4K7 J 0W25
13 1716	Z..1	DIODE ZENER 5V1 OW5 C
31 35451	001.	CONNECTOR PERI FOBTE P21
31 3547	002.	CONNECTOR MT MOBSE P 2 2,5
31 3284	020.	CONNECTOR CIS MOBSE P 1 REEL
31 3549	003.	CONNECTOR MT MOBSE P 7 2,5
31 3248	004.	CONNECTOR IC FOBTE P14 7,5
31 35012	005.	CONNECTOR DE09 FOBTE P 9 WW
80 0658	0051	SPACER L13,5 H 5 M3 MS
36 2021	0052	SCREW DIN84 M 3 X 6 MP-
71 23023	0053	WASHER DIA 3,25X 7 T0,5 BAK
80 0893	0054	CONNECTOR D SCREWLOCK
36 75256	0055	WASHER DIA 3,1 X 6,2 T0,6 J
32 4158	006.	SWITCH SLIDE 2U PC FIX PC
42 0734	007.	KNOB TURN BLACK
72 1784	0071	KNOB TURN AXE 10,25MM
34 8006	008.	WIRE TIE L140
80 0773	010.	DPL I/O PCD1640
36 21545	0101	SCREW DIN7985 M 4 X16 MP+
36 7503	0102	WASHER DIN6798 A 4,3
36 6103	0103	NUT DIN934 M 4 HEXAGONAL
72 1771	012.	CSB FRAME DCD1640
36 15085	0120	SCREW DIN7981 3,2X16 PP+
80 0774	013.	CSB PANEL IO PCD1640
36 15075	014.	SCREW DIN7981 3,2X 9,5 PP+
31 31382	015.	CONNECTOR HONDA FOBTE P 8 WW
36 2119	0150	SCREW DIN7985 M 2,5X10 MP+
80 1217	0151	SPACER L13 H 5 M2,5 MS
36 20121	0152	SCREW DIN84 M 2,5X 6 MP-
71 23023	0153	WASHER DIA 3,25X 7 T0,5 BAK
31 31401	016.	CONNECTOR BNC FOCTE P 1 R L
72 1684	0161	ISOLSPACER BNC 40
72 1685	0162	ISOLSPACER BNC 40
80 0762	0163	SOLDERLUG SCREW 1TAG D9,8 L24
31 31021	017.	CONNECTOR CINCH FOBTE P 1
31 3171	018.	CONNECTOR AUDIO FOBTE P 5 45
31 33921	019.	CONNECTOR JUMP F TE P 2 2,5


WARNING
THIS APPARATUS
MUST BE EARTHED
220V AC
70W
MADE IN BELGIUM BY BARCO ELECTRONIC

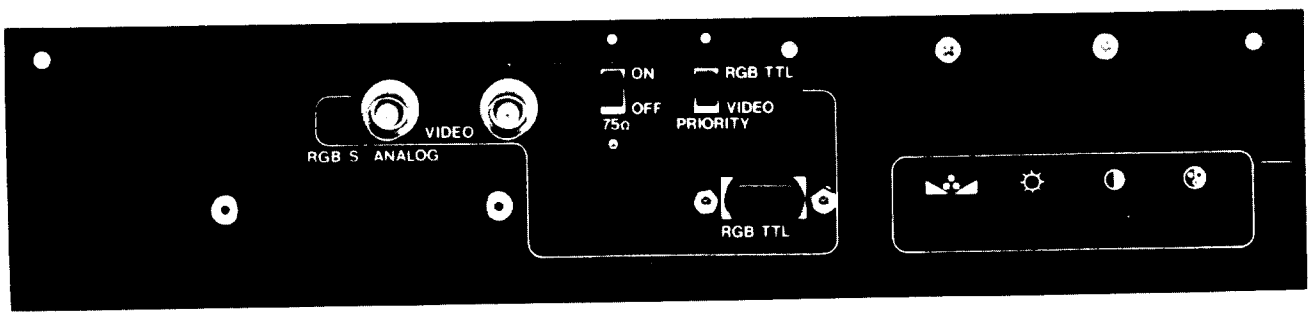


ITEM NO.	SIT.	DESCRIPTION
11 11355	C..1	CAPACITOR ELAX 1000M T 10
11 2735	C..2	CAPACITOR CE MI 470P K5 63
11 2242	C..3	CAPACITOR NPO MI 100P J5 63
11 2365	C..4	CAPACITOR N750MI 180P J5 63
11 2763	C..5	CAPACITOR CE MI 10K U5 63
11 2763	C..6	CAPACITOR CE MI 10K U5 63
11 2762	C..7	CAPACITOR CE MI 4K7 U5 63
11 3728	C..8	CAPACITOR POME 220K K5 63
11 11555	C..9	CAPACITOR ELAX 2M2 T 25
11 2238	C.10	CAPACITOR NPO MI 47P G5 63
11 11555	C.11	CAPACITOR ELAX 2M2 T 25
11 2238	C.12	CAPACITOR NPO MI 47P G5 63
11 11555	C.13	CAPACITOR ELAX 2M2 T 25
11 2238	C.14	CAPACITOR NPO MI 47P G5 63
11 11555	C.15	CAPACITOR ELAX 2M2 T 25
11 22415	C.16	CAPACITOR NPO MI 82P J5 63
11 1680	C.17	CAPACITOR ELRABI 10M V 40
11 1680	C.18	CAPACITOR ELRABI 10M V 40
11 1157	C.19	CAPACITOR ELAX 22M Z 25
11 1157	C.20	CAPACITOR ELAX 22M Z 25
11 1680	C.21	CAPACITOR ELRABI 10M V 40
11 1680	C.22	CAPACITOR ELRABI 10M V 40
11 1680	C.23	CAPACITOR ELRABI 10M V 40
11 1680	C.24	CAPACITOR ELRABI 10M V 40
11 1680	C.25	CAPACITOR ELRABI 10M V 40
11 1680	C.26	CAPACITOR ELRABI 10M V 40
11 11565	C.27	CAPACITOR ELAX 10M Z 25
11 2774	C.28	CAPACITOR CE MI 100K U5 63
11 11565	C.29	CAPACITOR ELAX 10M Z 25
11 2774	C.30	CAPACITOR CE MI 100K U5 63
11 2773	C.31	CAPACITOR CE MI 68K U5 63
11 2773	C.32	CAPACITOR CE MI 68K U5 63
11 2773	C.33	CAPACITOR CE MI 68K U5 63
11 2773	C.34	CAPACITOR CE MI 68K U5 63
11 2739	C.35	CAPACITOR CE MI 1K K5 63
11 2238	C.36	CAPACITOR NPO MI 47P G5 63
11 2238	C.37	CAPACITOR NPO MI 47P G5 63
11 2238	C.38	CAPACITOR NPO MI 47P G5 63
11 1127	C.39	CAPACITOR ELAX 22M Z 10
11 2774	C.40	CAPACITOR CE MI 100K U5 63
11 2774	C.41	CAPACITOR CE MI 100K U5 63
11 2732	C.42	CAPACITOR CE MI 270P K5 63
11 2732	C.43	CAPACITOR CE MI 270P K5 63
11 2732	C.44	CAPACITOR CE MI 270P K5 63
11 2387	C.45	CAPACITOR N152MI 470P J5 63
13 1621	D..1	DIODE 1N4148 SWITCH
13 1621	D..2	DIODE 1N4148 SWITCH
13 1621	D..3	DIODE 1N4148 SWITCH
13 1621	D..4	DIODE 1N4148 SWITCH
13 1621	D..5	DIODE 1N4148 SWITCH
13 1621	D..6	DIODE 1N4148 SWITCH
13 1621	D..7	DIODE 1N4148 SWITCH
13 1621	D..8	DIODE 1N4148 SWITCH
13 1621	D..9	DIODE 1N4148 SWITCH
13 1621	D.10	DIODE 1N4148 SWITCH
13 1621	D.11	DIODE 1N4148 SWITCH
13 1621	D.12	DIODE 1N4148 SWITCH
13 1621	D.13	DIODE 1N4148 SWITCH
13 1621	D.14	DIODE 1N4148 SWITCH
13 1621	D.15	DIODE 1N4148 SWITCH
13 1621	D.16	DIODE 1N4148 SWITCH
13 1621	D.17	DIODE 1N4148 SWITCH
13 1621	D.18	DIODE 1N4148 SWITCH
13 1621	D.19	DIODE 1N4148 SWITCH
13 1621	D.20	DIODE 1N4148 SWITCH
13 1621	D.21	DIODE 1N4148 SWITCH
13 1621	D.22	DIODE 1N4148 SWITCH
13 1621	D.23	DIODE 1N4148 SWITCH
13 1636	D.24	DIODE BAT43 SD101 SCHOTTKY

ITEM NO.	SIT.	DESCRIPTION
13 7494	I..1	INTEGRATED CIRCUIT 74LS86
13 7494	I..2	INTEGRATED CIRCUIT 74LS86
13 7391	I..3	INTEGRATED CIRCUIT 4053B
13 7480	I..4	INTEGRATED CIRCUIT 74LS123
13 7302	I..5	INTEGRATED CIRCUIT 4011B
13 7397	I..6	INTEGRATED CIRCUIT 4013B
13 4010	I..7	INTEGRATED CIRCUIT 7815
13 4001	I..8	INTEGRATED CIRCUIT 7805
10 6725	P..1	TRIMPOT CEMH 500E K 0W50
10 6734	P..2	TRIMPOT CEMH 200K K 0W50
10 6734	P..3	TRIMPOT CEMH 200K K 0W50
10 6727	P..4	TRIMPOT CEMH 2K K 0W50
10 6729	P..5	TRIMPOT CEMH 10K K 0W50
71 6250	PC..	PC 40 INP OUTP 2 PCD16 761344
13 14181	Q..1	TRANSISTOR BC559B,BC309B
13 14181	Q..2	TRANSISTOR BC559B,BC309B
13 14181	Q..3	TRANSISTOR BC559B,BC309B
13 14181	Q..4	TRANSISTOR BC559B,BC309B
13 14181	Q..5	TRANSISTOR BC559B,BC309B
13 14181	Q..6	TRANSISTOR BC559B,BC309B
13 14181	Q..7	TRANSISTOR BC559B,BC309B
13 14295	Q..8	TRANSISTOR BC549B,
13 14295	Q..9	TRANSISTOR BC549B,
13 14181	Q.10	TRANSISTOR BC559B,BC309B
13 14181	Q.11	TRANSISTOR BC559B,BC309B
13 14181	Q.12	TRANSISTOR BC559B,BC309B
13 14181	Q.13	TRANSISTOR BC559B,BC309B
13 14181	Q.14	TRANSISTOR BC559B,BC309B
13 14181	Q.15	TRANSISTOR BC559B,BC309B
13 14295	Q.16	TRANSISTOR BC549B,
13 14295	Q.17	TRANSISTOR BC549B,
13 14181	Q.18	TRANSISTOR BC559B,BC309B
13 14295	Q.19	TRANSISTOR BC549B,
13 14181	Q.20	TRANSISTOR BC559B,BC309B
13 14295	Q.21	TRANSISTOR BC549B,
13 14295	Q.22	TRANSISTOR BC549B,
13 14181	Q.23	TRANSISTOR BC559B,BC309B
13 14295	Q.24	TRANSISTOR BC549B,
13 14181	Q.25	TRANSISTOR BC559B,BC309B
13 14181	Q.26	TRANSISTOR BC559B,BC309B
13 14181	Q.27	TRANSISTOR BC559B,BC309B
13 14181	Q.28	TRANSISTOR BC559B,BC309B
13 14181	Q.29	TRANSISTOR BC559B,BC309B
13 14181	Q.30	TRANSISTOR BC559B,BC309B
13 14181	Q.31	TRANSISTOR BC559B,BC309B
13 14181	Q.32	TRANSISTOR BC559B,BC309B
13 14181	Q.33	TRANSISTOR BC559B,BC309B
13 14181	Q.34	TRANSISTOR BC559B,BC309B
13 14181	Q.35	TRANSISTOR BC559B,BC309B
13 14181	Q.36	TRANSISTOR BC559B,BC309B
13 14181	Q.37	TRANSISTOR BC559B,BC309B
13 14181	Q.38	TRANSISTOR BC559B,BC309B
13 14181	Q.39	TRANSISTOR BC559B,BC309B
13 14181	Q.40	TRANSISTOR BC559B,BC309B
13 14181	Q.41	TRANSISTOR BC559B,BC309B
13 14181	Q.42	TRANSISTOR BC559B,BC309B
13 14181	Q.43	TRANSISTOR BC559B,BC309B
13 14181	Q.44	TRANSISTOR BC559B,BC309B
13 14181	Q.45	TRANSISTOR BC559B,BC309B
13 14295	Q.46	TRANSISTOR BC549B,
13 14181	Q.47	TRANSISTOR BC559B,BC309B
13 14181	Q.48	TRANSISTOR BC559B,BC309B
13 14295	Q.49	TRANSISTOR BC549B,
13 14295	Q.50	TRANSISTOR BC549B,
13 14181	Q.51	TRANSISTOR BC559B,BC309B
10 1130	R..2	RESISTOR CF 330E J 0W25

ITEM NO.	SIT.	DESCRIPTION			
10 1135	R..3	RESISTOR CF	820E	J	0W25
10 1153	R..4	RESISTOR CF	27K	J	0W25
10 1130	R..6	RESISTOR CF	330E	J	0W25
10 1135	R..7	RESISTOR CF	820E	J	0W25
10 1137	R..8	RESISTOR CF	1K2	J	0W25
10 1130	R.10	RESISTOR CF	330E	J	0W25
10 1135	R.11	RESISTOR CF	820E	J	0W25
10 1137	R.12	RESISTOR CF	1K2	J	0W25
10 1137	R.13	RESISTOR CF	1K2	J	0W25
10 1130	R.15	RESISTOR CF	330E	J	0W25
10 1135	R.16	RESISTOR CF	820E	J	0W25
10 1137	R.17	RESISTOR CF	1K2	J	0W25
10 1153	R.18	RESISTOR CF	27K	J	0W25
10 1130	R.20	RESISTOR CF	330E	J	0W25
10 1135	R.21	RESISTOR CF	820E	J	0W25
10 1137	R.22	RESISTOR CF	1K2	J	0W25
10 1153	R.23	RESISTOR CF	27K	J	0W25
10 1136	R.24	RESISTOR CF	1K	J	0W25
10 1135	R.25	RESISTOR CF	820E	J	0W25
10 1137	R.26	RESISTOR CF	1K2	J	0W25
10 1152	R.27	RESISTOR CF	22K	J	0W25
10 1153	R.28	RESISTOR CF	27K	J	0W25
10 1136	R.29	RESISTOR CF	1K	J	0W25
10 1147	R.30	RESISTOR CF	8K2	J	0W25
10 1136	R.31	RESISTOR CF	1K	J	0W25
10 1130	R.33	RESISTOR CF	330E	J	0W25
10 1135	R.34	RESISTOR CF	820E	J	0W25
10 1137	R.35	RESISTOR CF	1K2	J	0W25
10 1153	R.36	RESISTOR CF	27K	J	0W25
10 1140	R.37	RESISTOR CF	2K2	J	0W25
10 1129	R.38	RESISTOR CF	270E	J	0W25
10 1129	R.39	RESISTOR CF	270E	J	0W25
10 1129	R.40	RESISTOR CF	270E	J	0W25
10 1138	R.41	RESISTOR CF	1K5	J	0W25
10 1142	R.42	RESISTOR CF	3K3	J	0W25
10 1137	R.43	RESISTOR CF	1K2	J	0W25
10 1137	R.44	RESISTOR CF	1K2	J	0W25
10 1136	R.45	RESISTOR CF	1K	J	0W25
10 1128	R.46	RESISTOR CF	220E	J	0W25
10 1124	R.47	RESISTOR CF	100E	J	0W25
10 1124	R.48	RESISTOR CF	100E	J	0W25
10 1124	R.49	RESISTOR CF	100E	J	0W25
10 1144	R.50	RESISTOR CF	4K7	J	0W25
10 1153	R.51	RESISTOR CF	27K	J	0W25
10 1157	R.52	RESISTOR CF	56K	J	0W25
10 1150	R.53	RESISTOR CF	15K	J	0W25
10 1136	R.54	RESISTOR CF	1K	J	0W25
10 1140	R.55	RESISTOR CF	2K2	J	0W25
10 1154	R.56	RESISTOR CF	33K	J	0W25
10 1150	R.57	RESISTOR CF	15K	J	0W25
10 1136	R.58	RESISTOR CF	1K	J	0W25
10 1163	R.59	RESISTOR CF	180K	J	0W25
10 1154	R.60	RESISTOR CF	33K	J	0W25
10 1134	R.61	RESISTOR CF	680E	J	0W25
10 1135	R.62	RESISTOR CF	820E	J	0W25
10 1164	R.63	RESISTOR CF	220K	J	0W25
10 1124	R.64	RESISTOR CF	100E	J	0W25
10 11231	R.65	RESISTOR CF	75E	J	0W25
10 1124	R.66	RESISTOR CF	100E	J	0W25
10 1156	R.67	RESISTOR CF	47K	J	0W25
10 1156	R.68	RESISTOR CF	47K	J	0W25
10 1124	R.69	RESISTOR CF	100E	J	0W25
10 1164	R.70	RESISTOR CF	220K	J	0W25
10 1124	R.71	RESISTOR CF	100E	J	0W25
10 11231	R.72	RESISTOR CF	75E	J	0W25
10 1124	R.73	RESISTOR CF	100E	J	0W25
10 1156	R.74	RESISTOR CF	47K	J	0W25
10 1124	R.75	RESISTOR CF	100E	J	0W25
10 1152	R.76	RESISTOR CF	22K	J	0W25
10 1156	R.77	RESISTOR CF	47K	J	0W25
10 1164	R.78	RESISTOR CF	220K	J	0W25
10 1124	R.79	RESISTOR CF	100E	J	0W25
10 1156	R.80	RESISTOR CF	47K	J	0W25
10 1124	R.81	RESISTOR CF	100E	J	0W25
10 11231	R.82	RESISTOR CF	75E	J	0W25
10 1124	R.83	RESISTOR CF	100E	J	0W25
10 1164	R.84	RESISTOR CF	220K	J	0W25
10 1156	R.85	RESISTOR CF	47K	J	0W25
10 1136	R.86	RESISTOR CF	1K	J	0W25
10 1132	R.87	RESISTOR CF	470E	J	0W25
10 1126	R.88	RESISTOR CF	150E	J	0W25
10 1122	R.89	RESISTOR CF	68E	J	0W25
10 1140	R.90	RESISTOR CF	2K2	J	0W25
10 1124	R.91	RESISTOR CF	100E	J	0W25
10 1153	R.92	RESISTOR CF	27K	J	0W25
10 1130	R.93	RESISTOR CF	330E	J	0W25
10 1136	R.94	RESISTOR CF	1K	J	0W25
10 1134	R.95	RESISTOR CF	680E	J	0W25
10 1124	R.96	RESISTOR CF	100E	J	0W25
10 1130	R.97	RESISTOR CF	330E	J	0W25
10 1153	R.98	RESISTOR CF	27K	J	0W25
10 1132	R.99	RESISTOR CF	470E	J	0W25
10 1140	R101	RESISTOR CF	2K2	J	0W25
10 1148	R102	RESISTOR CF	10K	J	0W25
10 1123	R103	RESISTOR CF	82E	J	0W25
10 1132	R104	RESISTOR CF	470E	J	0W25
10 1138	R105	RESISTOR CF	1K5	J	0W25
10 1132	R106	RESISTOR CF	470E	J	0W25
10 1153	R107	RESISTOR CF	27K	J	0W25
10 1130	R108	RESISTOR CF	330E	J	0W25
10 1130	R109	RESISTOR CF	330E	J	0W25
10 1153	R110	RESISTOR CF	27K	J	0W25
10 1153	R111	RESISTOR CF	27K	J	0W25
10 1130	R112	RESISTOR CF	330E	J	0W25
10 1130	R113	RESISTOR CF	330E	J	0W25
10 1153	R114	RESISTOR CF	27K	J	0W25
10 1153	R115	RESISTOR CF	27K	J	0W25
10 1130	R116	RESISTOR CF	330E	J	0W25
10 1130	R117	RESISTOR CF	330E	J	0W25
10 1153	R118	RESISTOR CF	27K	J	0W25
10 1141	R119	RESISTOR CF	2K7	J	0W25
10 1124	R120	RESISTOR CF	100E	J	0W25
10 1124	R121	RESISTOR CF	100E	J	0W25
10 1124	R122	RESISTOR CF	100E	J	0W25
10 1124	R123	RESISTOR CF	100E	J	0W25
10 1137	R124	RESISTOR CF	1K2	J	0W25
10 1124	R125	RESISTOR CF	100E	J	0W25
10 1124	R126	RESISTOR CF	100E	J	0W25
10 1142	R127	RESISTOR CF	3K3	J	0W25
10 1157	R128	RESISTOR CF	56K	J	0W25
10 11231	R129	RESISTOR CF	75E	J	0W25
10 1134	R130	RESISTOR CF	680E	J	0W25
10 11231	R131	RESISTOR CF	75E	J	0W25
10 1134	R132	RESISTOR CF	680E	J	0W25
10 11231	R133	RESISTOR CF	75E	J	0W25
10 1134	R134	RESISTOR CF	680E	J	0W25
10 11231	R137	RESISTOR CF	75E	J	0W25
10 1172	R138	RESISTOR CF	1M	J	0W25
10 1141	R139	RESISTOR CF	2K7	J	0W25
10 1141	R140	RESISTOR CF	2K7	J	0W25
10 1141	R141	RESISTOR CF	2K7	J	0W25
10 1141	R142	RESISTOR CF	2K7	J	0W25
10 1156	R143	RESISTOR CF	47K	J	0W25
10 1140	R144	RESISTOR CF	2K2	J	0W25
10 1136	R145	RESISTOR CF	1K	J	0W25
10 1136	R146	RESISTOR CF	1K	J	0W25
10 1156	R147	RESISTOR CF	47K	J	0W25
10 1144	R148	RESISTOR CF	4K7	J	0W25
10 1148	R149	RESISTOR CF	10K	J	0W25
10 1156	R150	RESISTOR CF	47K	J	0W25

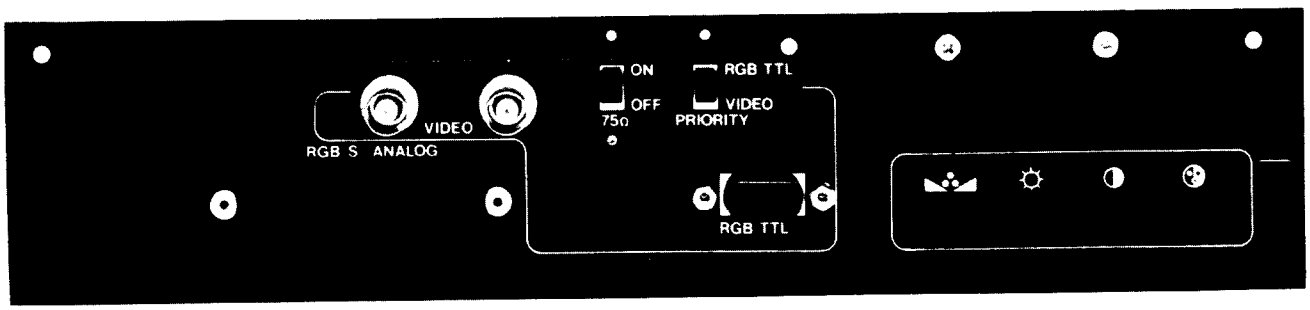
ITEM NO.	SIT.	DESCRIPTION
10 1148	R151	RESISTOR CF 10K J 0W25
10 1148	R152	RESISTOR CF 10K J 0W25
10 1155	R153	RESISTOR CF 39K J 0W25
10 1161	R154	RESISTOR CF 120K J 0W25
10 1156	R155	RESISTOR CF 47K J 0W25
10 1141	R156	RESISTOR CF 2K7 J 0W25
10 1140	R158	RESISTOR CF 2K2 J 0W25
10 1140	R159	RESISTOR CF 2K2 J 0W25
10 1140	R160	RESISTOR CF 2K2 J 0W25
10 1148	R161	RESISTOR CF 10K J 0W25
13 1757	Z..1	DIODE ZENER 3V9 0W5 C
13 1757	Z..2	DIODE ZENER 3V9 0W5 C
13 1744	Z..3	DIODE ZENER 5V6 0W5 C
32 4188	001.	SWITCH DIL 1A 4P TE
32 4190	002.	SWITCH DIL 1A 2P TE
32 4185	003.	SWITCH DIL 1A 7P TE
32 4192	004.	SWITCH SLIDE 1U
32 4127	005.	SWITCH SLIDE 4A
31 3548	006.	CONNECTOR MT MOBSE P 5 2,5
31 3549	007.	CONNECTOR MT MOBSE P 7 2,5
31 35012	008.	CONNECTOR DE09 FOBTE P 9 WW
80 0658	0081	SPACER L13,5 H 5 M3 MS
71 23023	0082	WASHER DIA 3,25X 7 T0,5 BAK
36 2021	0083	SCREW DIN84 M 3 X 6 MP-
80 0893	0084	CONNECTOR D SCREWLOCK
80 0773	009.	DPL I/O PCD1640
36 21525	0091	SCREW DIN7985 M 4 X10 MP+
36 7503	0092	WASHER DIN6798 A 4,3
36 6103	0093	NUT DIN934 M 4 HEXAGONAL
36 15075	0094	SCREW DIN7981 3,2X 9,5 PP+
80 1213	010.	CSB PANEL I/O 2 PCD1640
31 3140	0101	CONNECTOR BNC FOCTE P 1 R S
72 1684	0102	ISOLSPACER BNC 40
72 1685	0103	ISOLSPACER BNC 40
80 0762	0104	SOLDERLUG SCREW 1TAG D9,8 L24
36 15075	0105	SCREW DIN7981 3,2X 9,5 PP+
72 1771	011.	CSB FRAME DCD1640
31 3337	012.	SPACER L 4,76 PCB
80 1272	0121	SCREEN PLATE I/O 2 PCD1640
80 1273	0122	ISOL PLATE I/O 2 PCD1640
36 2120	013.	SCREW DIN7985 M 3 X 4 MP+
34 8019	014.	WIRE TIE L100


VIDEO
RGB S ANALOG
ON
OFF
75Ω
RGB TTL
VIDEO
PRIORITY
RGB TTL

ITEM NO.	SIT.	DESCRIPTION
11 2773	C..1	CAPACITOR CE MI 68K U5 63
11 1680	C..2	CAPACITOR ELRABI 10M V 40
11 1680	C..3	CAPACITOR ELRABI 10M V 40
11 1548	C..4	CAPACITOR ELPRMI 2M2 M5 50
11 22415	C..5	CAPACITOR NPO MI 82P J5 63
11 1510	C..6	CAPACITOR ELPRMI 22M M5 25
11 3728	C..7	CAPACITOR POME 220K K5 63
11 2763	C..8	CAPACITOR CE MI 10K U5 63
11 1546	C..9	CAPACITOR ELPRMI 1M M5 50
11 11565	C.10	CAPACITOR ELAX 10M Z 25
11 2774	C.11	CAPACITOR CE MI 100K U5 63
11 11565	C.12	CAPACITOR ELAX 10M Z 25
11 2774	C.13	CAPACITOR CE MI 100K U5 63
11 2387	C.14	CAPACITOR N152MI 470P J5 63
11 1548	C.15	CAPACITOR ELPRMI 2M2 M5 50
11 2364	C.16	CAPACITOR N750MI 150P J5 63
11 1548	C.17	CAPACITOR ELPRMI 2M2 M5 50
11 2364	C.18	CAPACITOR N750MI 150P J5 63
11 1548	C.19	CAPACITOR ELPRMI 2M2 M5 50
11 2364	C.20	CAPACITOR N750MI 150P J5 63
11 11355	C.21	CAPACITOR ELAX 1000M T 10
11 2362	C.22	CAPACITOR N750MI 100P J5 63
11 2365	C.23	CAPACITOR N750MI 180P J5 63
11 2763	C.24	CAPACITOR CE MI 10K U5 63
11 2762	C.25	CAPACITOR CE MI 4K7 U5 63
11 2763	C.26	CAPACITOR CE MI 10K U5 63
11 3728	C.27	CAPACITOR POME 220K K5 63
11 3724	C.28	CAPACITOR POME 100K K5 63
11 2387	C.29	CAPACITOR N152MI 470P J5 63
11 1531	C.30	CAPACITOR ELPRMI 10M M5 35
11 3728	C.42	CAPACITOR POME 220K K5 63
11 3728	C.43	CAPACITOR POME 220K K5 63
11 1115	C.44	CAPACITOR ELAX 10M Z 6
13 1621	D..1	DIODE 1N4148 SWITCH
13 1621	D..2	DIODE 1N4148 SWITCH
13 1621	D..3	DIODE 1N4148 SWITCH
13 1621	D..4	DIODE 1N4148 SWITCH
13 1621	D..5	DIODE 1N4148 SWITCH
13 1621	D..6	DIODE 1N4148 SWITCH
13 1621	D..7	DIODE 1N4148 SWITCH
13 1621	D..8	DIODE 1N4148 SWITCH
13 1621	D..9	DIODE 1N4148 SWITCH
13 1621	D.10	DIODE 1N4148 SWITCH
13 1621	D.11	DIODE 1N4148 SWITCH
13 1621	D.12	DIODE 1N4148 SWITCH
13 1621	D.13	DIODE 1N4148 SWITCH
13 1621	D.14	DIODE 1N4148 SWITCH
13 1621	D.15	DIODE 1N4148 SWITCH
13 1621	D.16	DIODE 1N4148 SWITCH
13 1621	D.17	DIODE 1N4148 SWITCH
13 7494	I..1	INTEGRATED CIRCUIT 74LS86
13 7494	I..2	INTEGRATED CIRCUIT 74LS86
13 7480	I..3	INTEGRATED CIRCUIT 74LS123
13 7302	I..4	INTEGRATED CIRCUIT 4011B
13 4010	I..7	INTEGRATED CIRCUIT 7815
13 4001	I..8	INTEGRATED CIRCUIT 7805
10 6105	P..1	TRIMPOT CAMH 2K2 M 0W05
10 6104	P..2	TRIMPOT CAMH 1K M 0W05
10 6112	P..3	TRIMPOT CAMH 220K M 0W05
10 7167	P..5	POTMETER CARV 4K7 M 0W20
10 7167	P..6	POTMETER CARV 4K7 M 0W20
10 7167	P..7	POTMETER CARV 4K7 M 0W20
10 7167	P..8	POTMETER CARV 4K7 M 0W20
71 6211	PC..	PC 40 INP OUTP PSM AC26 761341
13 14182	Q..1	TRANSISTOR BC559C,BC309C
13 14182	Q..2	TRANSISTOR BC559C,BC309C
13 14182	Q..3	TRANSISTOR BC559C,BC309C
13 1411	Q..4	TRANSISTOR BC549C,BC239C
13 14182	Q..5	TRANSISTOR BC559C,BC309C
13 1411	Q..6	TRANSISTOR BC549C,BC239C
13 1411	Q..7	TRANSISTOR BC549C,BC239C
13 1411	Q..8	TRANSISTOR BC549C,BC239C
13 1411	Q..9	TRANSISTOR BC549C,BC239C
13 1411	Q.10	TRANSISTOR BC549C,BC239C
13 1411	Q.11	TRANSISTOR BC549C,BC239C
13 14182	Q.12	TRANSISTOR BC559C,BC309C
13 1411	Q.13	TRANSISTOR BC549C,BC239C
13 1411	Q.14	TRANSISTOR BC549C,BC239C
13 14182	Q.16	TRANSISTOR BC559C,BC309C
13 14182	Q.17	TRANSISTOR BC559C,BC309C
13 14182	Q.18	TRANSISTOR BC559C,BC309C
13 14182	Q.19	TRANSISTOR BC559C,BC309C
13 14182	Q.20	TRANSISTOR BC559C,BC309C
13 1411	Q.21	TRANSISTOR BC549C,BC239C
13 1411	Q.22	TRANSISTOR BC549C,BC239C
13 14182	Q.23	TRANSISTOR BC559C,BC309C
13 14182	Q.24	TRANSISTOR BC559C,BC309C
13 14182	Q.25	TRANSISTOR BC559C,BC309C
13 14182	Q.26	TRANSISTOR BC559C,BC309C
13 14182	Q.27	TRANSISTOR BC559C,BC309C
13 14182	Q.28	TRANSISTOR BC559C,BC309C
13 14182	Q.29	TRANSISTOR BC559C,BC309C
13 14182	Q.30	TRANSISTOR BC559C,BC309C
13 14182	Q.31	TRANSISTOR BC559C,BC309C
13 1411	Q.32	TRANSISTOR BC549C,BC239C
13 14182	Q.33	TRANSISTOR BC559C,BC309C
13 14182	Q.34	TRANSISTOR BC559C,BC309C
13 14182	Q.35	TRANSISTOR BC559C,BC309C
13 14182	Q.36	TRANSISTOR BC559C,BC309C
13 1411	Q.37	TRANSISTOR BC549C,BC239C
13 14182	Q.38	TRANSISTOR BC559C,BC309C
13 1411	Q.39	TRANSISTOR BC549C,BC239C
13 14182	Q.40	TRANSISTOR BC559C,BC309C
13 1411	Q.41	TRANSISTOR BC549C,BC239C
13 14182	Q.42	TRANSISTOR BC559C,BC309C
13 14182	Q.43	TRANSISTOR BC559C,BC309C
13 14182	Q.44	TRANSISTOR BC559C,BC309C
13 14182	Q.45	TRANSISTOR BC559C,BC309C
13 1411	Q.48	TRANSISTOR BC549C,BC239C
13 1411	Q.49	TRANSISTOR BC549C,BC239C
13 1411	Q.50	TRANSISTOR BC549C,BC239C
13 14182	Q.51	TRANSISTOR BC559C,BC309C
10 1141	R..1	RESISTOR CF 2K7 J 0W25
10 11231	R..2	RESISTOR CF 75E J 0W25
10 1124	R..3	RESISTOR CF 100E J 0W25
10 1153	R..4	RESISTOR CF 27K J 0W25
10 1130	R..5	RESISTOR CF 330E J 0W25
10 1136	R..6	RESISTOR CF 1K J 0W25
10 1138	R..7	RESISTOR CF 1K5 J 0W25
10 1130	R..8	RESISTOR CF 330E J 0W25
10 1153	R..9	RESISTOR CF 27K J 0W25
10 1124	R.10	RESISTOR CF 100E J 0W25
10 1141	R.11	RESISTOR CF 2K7 J 0W25
10 1142	R.12	RESISTOR CF 3K3 J 0W25
10 1139	R.13	RESISTOR CF 1K8 J 0W25
10 1166	R.14	RESISTOR CF 330K J 0W25
10 1154	R.15	RESISTOR CF 33K J 0W25
10 1160	R.16	RESISTOR CF 100K J 0W25
10 1148	R.17	RESISTOR CF 10K J 0W25
10 1164	R.18	RESISTOR CF 220K J 0W25
10 1134	R.19	RESISTOR CF 680E J 0W25
10 1156	R.20	RESISTOR CF 47K J 0W25
10 1136	R.21	RESISTOR CF 1K J 0W25
10 1132	R.22	RESISTOR CF 470E J 0W25

ITEM NO.	SIT.	DESCRIPTION
10 1126	R.23	RESISTOR CF 150E J 0W25
10 1122	R.24	RESISTOR CF 68E J 0W25
10 1160	R.25	RESISTOR CF 100K J 0W25
10 1160	R.26	RESISTOR CF 100K J 0W25
10 1148	R.27	RESISTOR CF 10K J 0W25
10 1148	R.28	RESISTOR CF 10K J 0W25
10 1136	R.29	RESISTOR CF 1K J 0W25
10 1152	R.30	RESISTOR CF 22K J 0W25
10 1168	R.31	RESISTOR CF 470K J 0W25
10 1148	R.32	RESISTOR CF 10K J 0W25
10 1162	R.33	RESISTOR CF 150K J 0W25
10 1160	R.35	RESISTOR CF 100K J 0W25
10 1137	R.36	RESISTOR CF 1K2 J 0W25
10 1162	R.37	RESISTOR CF 150K J 0W25
10 1137	R.38	RESISTOR CF 1K2 J 0W25
10 1156	R.39	RESISTOR CF 47K J 0W25
10 1130	R.41	RESISTOR CF 330E J 0W25
10 1135	R.42	RESISTOR CF 820E J 0W25
10 1137	R.43	RESISTOR CF 1K2 J 0W25
10 1148	R.44	RESISTOR CF 10K J 0W25
10 1135	R.45	RESISTOR CF 820E J 0W25
10 1125	R.46	RESISTOR CF 120E J 0W25
10 1130	R.47	RESISTOR CF 330E J 0W25
10 1135	R.48	RESISTOR CF 820E J 0W25
10 1137	R.49	RESISTOR CF 1K2 J 0W25
10 1130	R.51	RESISTOR CF 330E J 0W25
10 1135	R.52	RESISTOR CF 820E J 0W25
10 1137	R.53	RESISTOR CF 1K2 J 0W25
10 1135	R.54	RESISTOR CF 820E J 0W25
10 1130	R.55	RESISTOR CF 330E J 0W25
10 1129	R.56	RESISTOR CF 270E J 0W25
10 1130	R.58	RESISTOR CF 330E J 0W25
10 1135	R.59	RESISTOR CF 820E J 0W25
10 1137	R.60	RESISTOR CF 1K2 J 0W25
10 1135	R.61	RESISTOR CF 820E J 0W25
10 1136	R.62	RESISTOR CF 1K J 0W25
10 1130	R.63	RESISTOR CF 330E J 0W25
10 1130	R.65	RESISTOR CF 330E J 0W25
10 1135	R.66	RESISTOR CF 820E J 0W25
10 1153	R.67	RESISTOR CF 27K J 0W25
10 1137	R.68	RESISTOR CF 1K2 J 0W25
10 1162	R.69	RESISTOR CF 150K J 0W25
10 1157	R.70	RESISTOR CF 56K J 0W25
10 1156	R.71	RESISTOR CF 47K J 0W25
10 1136	R.72	RESISTOR CF 1K J 0W25
10 1136	R.73	RESISTOR CF 1K J 0W25
10 11231	R.74	RESISTOR CF 75E J 0W25
10 1119	R.75	RESISTOR CF 39E J 0W25
10 1157	R.76	RESISTOR CF 56K J 0W25
10 1156	R.77	RESISTOR CF 47K J 0W25
10 1136	R.78	RESISTOR CF 1K J 0W25
10 1136	R.79	RESISTOR CF 1K J 0W25
10 11231	R.80	RESISTOR CF 75E J 0W25
10 1119	R.81	RESISTOR CF 39E J 0W25
10 1157	R.82	RESISTOR CF 56K J 0W25
10 1156	R.83	RESISTOR CF 47K J 0W25
10 1136	R.84	RESISTOR CF 1K J 0W25
10 1136	R.85	RESISTOR CF 1K J 0W25
10 11231	R.86	RESISTOR CF 75E J 0W25
10 1119	R.87	RESISTOR CF 39E J 0W25
10 1130	R.89	RESISTOR CF 330E J 0W25
10 1135	R.90	RESISTOR CF 820E J 0W25
10 1153	R.91	RESISTOR CF 27K J 0W25
10 1137	R.92	RESISTOR CF 1K2 J 0W25
10 1144	R.93	RESISTOR CF 4K7 J 0W25
10 1153	R.94	RESISTOR CF 27K J 0W25
10 1157	R.95	RESISTOR CF 56K J 0W25
10 1125	R.96	RESISTOR CF 120E J 0W25

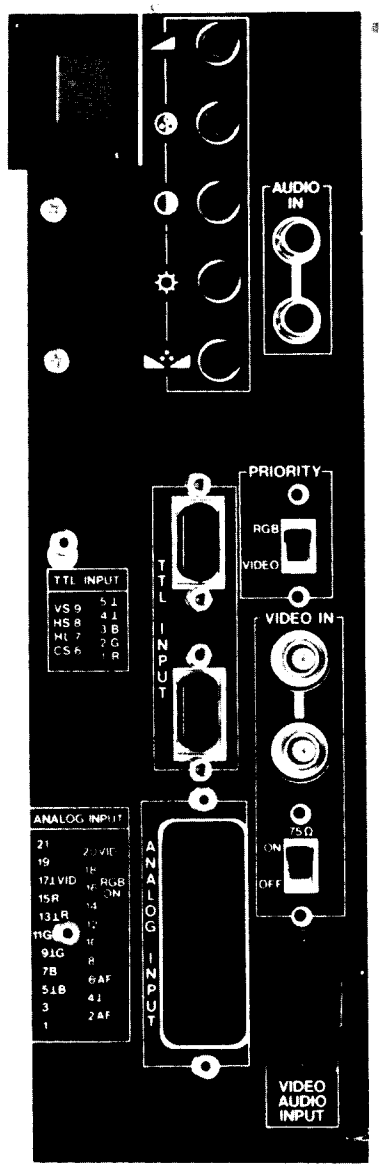
ITEM NO.	SIT.	DESCRIPTION
10 1135	R.97	RESISTOR CF 820E J 0W25
10 1152	R.98	RESISTOR CF 22K J 0W25
10 1153	R.99	RESISTOR CF 27K J 0W25
10 1137	R100	RESISTOR CF 1K2 J 0W25
10 1136	R101	RESISTOR CF 1K J 0W25
10 1147	R102	RESISTOR CF 8K2 J 0W25
10 1136	R103	RESISTOR CF 1K J 0W25
10 1150	R104	RESISTOR CF 15K J 0W25
10 1172	R105	RESISTOR CF 1M J 0W25
10 1136	R106	RESISTOR CF 1K J 0W25
10 1130	R108	RESISTOR CF 330E J 0W25
10 1135	R109	RESISTOR CF 820E J 0W25
10 1137	R110	RESISTOR CF 1K2 J 0W25
10 1153	R111	RESISTOR CF 27K J 0W25
10 1140	R112	RESISTOR CF 2K2 J 0W25
10 1140	R113	RESISTOR CF 2K2 J 0W25
10 1140	R114	RESISTOR CF 2K2 J 0W25
10 1155	R115	RESISTOR CF 39K J 0W25
10 1150	R116	RESISTOR CF 15K J 0W25
10 1145	R117	RESISTOR CF 5K6 J 0W25
10 1163	R118	RESISTOR CF 180K J 0W25
10 1156	R119	RESISTOR CF 47K J 0W25
10 1168	R120	RESISTOR CF 470K J 0W25
10 1168	R121	RESISTOR CF 470K J 0W25
10 1148	R122	RESISTOR CF 10K J 0W25
10 1136	R123	RESISTOR CF 1K J 0W25
10 1156	R125	RESISTOR CF 47K J 0W25
10 1124	R145	RESISTOR CF 100E J 0W25
10 1124	R146	RESISTOR CF 100E J 0W25
10 1151	R147	RESISTOR CF 18K J 0W25
10 1148	R148	RESISTOR CF 10K J 0W25
10 1149	R149	RESISTOR CF 12K J 0W25
10 1138	R150	RESISTOR CF 1K5 J 0W25
10 1142	R151	RESISTOR CF 3K3 J 0W25
10 1137	R152	RESISTOR CF 1K2 J 0W25
10 1157	R153	RESISTOR CF 56K J 0W25
10 1148	R154	RESISTOR CF 10K J 0W25
10 1153	R155	RESISTOR CF 27K J 0W25
10 1142	R156	RESISTOR CF 3K3 J 0W25
10 1137	R157	RESISTOR CF 1K2 J 0W25
13 1757	Z..1	DIODE ZENER 3V9 0W5 C
13 1757	Z..2	DIODE ZENER 3V9 0W5 C
31 3276	001.	CONNECTOR WAFER MOBTE P10 2,5
31 33921	0011	CONNECTOR JUMP F TE P 2 2,5
32 4190	002.	SWITCH DIL 1A 2P TE
32 4188	003.	SWITCH DIL 1A 4P TE
31 35011	004.	CONNECTOR DE09 FOBSE P 9
80 0893	0041	CONNECTOR D SCREWLOCK
36 7435	0042	RIVET AL AL AD34ABS D2,4
31 3545	005.	CONNECTOR PERI FOBSE P21
36 7455	0051	RIVET AL FE TAP/D/BS46 D3,2
36 7502	0053	WASHER DIN6798 A 3,2
72 1784	006.	KNOB TURN AXE 10,25MM
42 0734	0061	KNOB TURN BLACK
80 1092	007.	DPL I/O PSM1DCD2640
36 2021	0071	SCREW DIN84 M 3 X 6 MP-
36 7502	0072	WASHER DIN6798 A 3,2
36 6102	0073	NUT DIN934 M 3 HEXAGONAL
31 3140	008.	CONNECTOR BNC FOCTE P 1 R S
72 1684	0081	ISOLSPACER BNC 40
72 1685	0082	ISOLSPACER BNC 40
80 0762	0083	SOLDERLUG SCREW 1TAG D9,8 L24
32 4158	009.	SWITCH SLIDE 2U PC FIX PC
34 8019	010.	WIRE TIE L100
31 3336	011.	SPACER L 5,3 PCB


VIDEO
RGB S ANALOG
ON
OFF
75Ω
RGB TTL
VIDEO
PRIORITY
RGB TTL

ITEM NO.	SIT.	DESCRIPTION
11 2773	C..1	CAPACITOR CE MI 68K U5 63
11 1680	C..2	CAPACITOR ELRABI 10M V 40
11 1680	C..3	CAPACITOR ELRABI 10M V 40
11 1548	C..4	CAPACITOR ELPRMI 2M2 M5 50
11 22415	C..5	CAPACITOR NPO MI 82P J5 63
11 1510	C..6	CAPACITOR ELPRMI 22M M5 25
11 3728	C..7	CAPACITOR POME 220K K5 63
11 2763	C..8	CAPACITOR CE MI 10K U5 63
11 1546	C..9	CAPACITOR ELPRMI 1M M5 50
11 11565	C.10	CAPACITOR ELAX 10M Z 25
11 2774	C.11	CAPACITOR CE MI 100K U5 63
11 11565	C.12	CAPACITOR ELAX 10M Z 25
11 2774	C.13	CAPACITOR CE MI 100K U5 63
11 2387	C.14	CAPACITOR N152MI 470P J5 63
11 1548	C.15	CAPACITOR ELPRMI 2M2 M5 50
11 2364	C.16	CAPACITOR N750MI 150P J5 63
11 1548	C.17	CAPACITOR ELPRMI 2M2 M5 50
11 2364	C.18	CAPACITOR N750MI 150P J5 63
11 1548	C.19	CAPACITOR ELPRMI 2M2 M5 50
11 2364	C.20	CAPACITOR N750MI 150P J5 63
11 11355	C.21	CAPACITOR ELAX 1000M T 10
11 2362	C.22	CAPACITOR N750MI 100P J5 63
11 2365	C.23	CAPACITOR N750MI 180P J5 63
11 2763	C.24	CAPACITOR CE MI 10K U5 63
11 2762	C.25	CAPACITOR CE MI 4K7 U5 63
11 2763	C.26	CAPACITOR CE MI 10K U5 63
11 3728	C.27	CAPACITOR POME 220K K5 63
11 3724	C.28	CAPACITOR POME 100K K5 63
11 2387	C.29	CAPACITOR N152MI 470P J5 63
11 1531	C.30	CAPACITOR ELPRMI 10M M5 35
11 3728	C.42	CAPACITOR POME 220K K5 63
11 3728	C.43	CAPACITOR POME 220K K5 63
11 1115	C.44	CAPACITOR ELAX 10M Z 6
13 1621	D..1	DIODE 1N4148 SWITCH
13 1621	D..2	DIODE 1N4148 SWITCH
13 1621	D..3	DIODE 1N4148 SWITCH
13 1621	D..4	DIODE 1N4148 SWITCH
13 1621	D..5	DIODE 1N4148 SWITCH
13 1621	D..6	DIODE 1N4148 SWITCH
13 1621	D..7	DIODE 1N4148 SWITCH
13 1621	D..8	DIODE 1N4148 SWITCH
13 1621	D..9	DIODE 1N4148 SWITCH
13 1621	D.10	DIODE 1N4148 SWITCH
13 1621	D.11	DIODE 1N4148 SWITCH
13 1621	D.12	DIODE 1N4148 SWITCH
13 1621	D.13	DIODE 1N4148 SWITCH
13 1621	D.14	DIODE 1N4148 SWITCH
13 1621	D.15	DIODE 1N4148 SWITCH
13 1621	D.16	DIODE 1N4148 SWITCH
13 1621	D.17	DIODE 1N4148 SWITCH
13 7494	I..1	INTEGRATED CIRCUIT 74LS86
13 7494	I..2	INTEGRATED CIRCUIT 74LS86
13 7480	I..3	INTEGRATED CIRCUIT 74LS123
13 7302	I..4	INTEGRATED CIRCUIT 4011B
13 4010	I..7	INTEGRATED CIRCUIT 7815
13 4001	I..8	INTEGRATED CIRCUIT 7805
10 6105	P..1	TRIMPOT CAMH 2K2 M 0W05
10 6104	P..2	TRIMPOT CAMH 1K M 0W05
10 6112	P..3	TRIMPOT CAMH 220K M 0W05
10 7167	P..5	POTMETER CARV 4K7 M 0W20
10 7167	P..6	POTMETER CARV 4K7 M 0W20
10 7167	P..7	POTMETER CARV 4K7 M 0W20
10 7167	P..8	POTMETER CARV 4K7 M 0W20
71 6211	PC..	PC 40 INP OUTP PSM AC26 761341
13 14182	Q..1	TRANSISTOR BC559C,BC309C
13 14182	Q..2	TRANSISTOR BC559C,BC309C
13 14182	Q..3	TRANSISTOR BC559C,BC309C
13 1411	Q..4	TRANSISTOR BC549C,BC239C
13 14182	Q..5	TRANSISTOR BC559C,BC309C
13 1411	Q..6	TRANSISTOR BC549C,BC239C
13 1411	Q..7	TRANSISTOR BC549C,BC239C
13 1411	Q..8	TRANSISTOR BC549C,BC239C
13 1411	Q..9	TRANSISTOR BC549C,BC239C
13 1411	Q.10	TRANSISTOR BC549C,BC239C
13 1411	Q.11	TRANSISTOR BC549C,BC239C
13 14182	Q.12	TRANSISTOR BC559C,BC309C
13 1411	Q.13	TRANSISTOR BC549C,BC239C
13 1411	Q.14	TRANSISTOR BC549C,BC239C
13 14182	Q.16	TRANSISTOR BC559C,BC309C
13 14182	Q.17	TRANSISTOR BC559C,BC309C
13 14182	Q.18	TRANSISTOR BC559C,BC309C
13 14182	Q.19	TRANSISTOR BC559C,BC309C
13 14182	Q.20	TRANSISTOR BC559C,BC309C
13 1411	Q.21	TRANSISTOR BC549C,BC239C
13 1411	Q.22	TRANSISTOR BC549C,BC239C
13 14182	Q.23	TRANSISTOR BC559C,BC309C
13 14182	Q.24	TRANSISTOR BC559C,BC309C
13 14182	Q.25	TRANSISTOR BC559C,BC309C
13 14182	Q.26	TRANSISTOR BC559C,BC309C
13 14182	Q.27	TRANSISTOR BC559C,BC309C
13 14182	Q.28	TRANSISTOR BC559C,BC309C
13 14182	Q.29	TRANSISTOR BC559C,BC309C
13 14182	Q.30	TRANSISTOR BC559C,BC309C
13 14182	Q.31	TRANSISTOR BC559C,BC309C
13 1411	Q.32	TRANSISTOR BC549C,BC239C
13 14182	Q.33	TRANSISTOR BC559C,BC309C
13 14182	Q.34	TRANSISTOR BC559C,BC309C
13 14182	Q.35	TRANSISTOR BC559C,BC309C
13 14182	Q.36	TRANSISTOR BC559C,BC309C
13 1411	Q.37	TRANSISTOR BC549C,BC239C
13 14182	Q.38	TRANSISTOR BC559C,BC309C
13 1411	Q.39	TRANSISTOR BC549C,BC239C
13 14182	Q.40	TRANSISTOR BC559C,BC309C
13 1411	Q.41	TRANSISTOR BC549C,BC239C
13 14182	Q.42	TRANSISTOR BC559C,BC309C
13 14182	Q.43	TRANSISTOR BC559C,BC309C
13 14182	Q.44	TRANSISTOR BC559C,BC309C
13 1411	Q.48	TRANSISTOR BC549C,BC239C
13 1411	Q.49	TRANSISTOR BC549C,BC239C
13 1411	Q.50	TRANSISTOR BC549C,BC239C
13 14182	Q.51	TRANSISTOR BC559C,BC309C
10 1141	R..1	RESISTOR CF 2K7 J 0W25
10 11231	R..2	RESISTOR CF 75E J 0W25
10 1124	R..3	RESISTOR CF 100E J 0W25
10 1153	R..4	RESISTOR CF 27K J 0W25
10 1130	R..5	RESISTOR CF 330E J 0W25
10 1136	R..6	RESISTOR CF 1K J 0W25
10 1138	R..7	RESISTOR CF 1K5 J 0W25
10 1130	R..8	RESISTOR CF 330E J 0W25
10 1153	R..9	RESISTOR CF 27K J 0W25
10 1124	R.10	RESISTOR CF 100E J 0W25
10 1141	R.11	RESISTOR CF 2K7 J 0W25
10 1142	R.12	RESISTOR CF 3K3 J 0W25
10 1139	R.13	RESISTOR CF 1K8 J 0W25
10 1166	R.14	RESISTOR CF 330K J 0W25
10 1154	R.15	RESISTOR CF 33K J 0W25
10 1160	R.16	RESISTOR CF 100K J 0W25
10 1148	R.17	RESISTOR CF 10K J 0W25
10 1164	R.18	RESISTOR CF 220K J 0W25
10 1134	R.19	RESISTOR CF 680E J 0W25
10 1156	R.20	RESISTOR CF 47K J 0W25
10 1136	R.21	RESISTOR CF 1K J 0W25
10 1132	R.22	RESISTOR CF 470E J 0W25
10 1126	R.23	RESISTOR CF 150E J 0W25

ITEM NO.	SIT.	DESCRIPTION			
10 1122	R.24	RESISTOR CF	68E	J	0W25
10 1160	R.25	RESISTOR CF	100K	J	0W25
10 1160	R.26	RESISTOR CF	100K	J	0W25
10 1148	R.27	RESISTOR CF	10K	J	0W25
10 1148	R.28	RESISTOR CF	10K	J	0W25
10 1136	R.29	RESISTOR CF	1K	J	0W25
10 1152	R.30	RESISTOR CF	22K	J	0W25
10 1168	R.31	RESISTOR CF	470K	J	0W25
10 1148	R.32	RESISTOR CF	10K	J	0W25
10 1162	R.33	RESISTOR CF	150K	J	0W25
10 1160	R.35	RESISTOR CF	100K	J	0W25
10 1137	R.36	RESISTOR CF	1K2	J	0W25
10 1162	R.37	RESISTOR CF	150K	J	0W25
10 1137	R.38	RESISTOR CF	1K2	J	0W25
10 1156	R.39	RESISTOR CF	47K	J	0W25
10 1130	R.41	RESISTOR CF	330E	J	0W25
10 1135	R.42	RESISTOR CF	820E	J	0W25
10 1137	R.43	RESISTOR CF	1K2	J	0W25
10 1148	R.44	RESISTOR CF	10K	J	0W25
10 1135	R.45	RESISTOR CF	820E	J	0W25
10 1125	R.46	RESISTOR CF	120E	J	0W25
10 1130	R.47	RESISTOR CF	330E	J	0W25
10 1135	R.48	RESISTOR CF	820E	J	0W25
10 1137	R.49	RESISTOR CF	1K2	J	0W25
10 1130	R.51	RESISTOR CF	330E	J	0W25
10 1135	R.52	RESISTOR CF	820E	J	0W25
10 1137	R.53	RESISTOR CF	1K2	J	0W25
10 1135	R.54	RESISTOR CF	820E	J	0W25
10 1130	R.55	RESISTOR CF	330E	J	0W25
10 1129	R.56	RESISTOR CF	270E	J	0W25
10 1130	R.58	RESISTOR CF	330E	J	0W25
10 1135	R.59	RESISTOR CF	820E	J	0W25
10 1137	R.60	RESISTOR CF	1K2	J	0W25
10 1135	R.61	RESISTOR CF	820E	J	0W25
10 1136	R.62	RESISTOR CF	1K	J	0W25
10 1130	R.63	RESISTOR CF	330E	J	0W25
10 1130	R.65	RESISTOR CF	330E	J	0W25
10 1135	R.66	RESISTOR CF	820E	J	0W25
10 1153	R.67	RESISTOR CF	27K	J	0W25
10 1137	R.68	RESISTOR CF	1K2	J	0W25
10 1162	R.69	RESISTOR CF	150K	J	0W25
10 1157	R.70	RESISTOR CF	56K	J	0W25
10 1156	R.71	RESISTOR CF	47K	J	0W25
10 1136	R.72	RESISTOR CF	1K	J	0W25
10 1136	R.73	RESISTOR CF	1K	J	0W25
10 11231	R.74	RESISTOR CF	75E	J	0W25
10 1119	R.75	RESISTOR CF	39E	J	0W25
10 1157	R.76	RESISTOR CF	56K	J	0W25
10 1156	R.77	RESISTOR CF	47K	J	0W25
10 1136	R.78	RESISTOR CF	1K	J	0W25
10 1136	R.79	RESISTOR CF	1K	J	0W25
10 11231	R.80	RESISTOR CF	75E	J	0W25
10 1119	R.81	RESISTOR CF	39E	J	0W25
10 1157	R.82	RESISTOR CF	56K	J	0W25
10 1156	R.83	RESISTOR CF	47K	J	0W25
10 1136	R.84	RESISTOR CF	1K	J	0W25
10 1136	R.85	RESISTOR CF	1K	J	0W25
10 11231	R.86	RESISTOR CF	75E	J	0W25
10 1119	R.87	RESISTOR CF	39E	J	0W25
10 1130	R.89	RESISTOR CF	330E	J	0W25
10 1135	R.90	RESISTOR CF	820E	J	0W25
10 1153	R.91	RESISTOR CF	27K	J	0W25
10 1137	R.92	RESISTOR CF	1K2	J	0W25
10 1144	R.93	RESISTOR CF	4K7	J	0W25
10 1153	R.94	RESISTOR CF	27K	J	0W25
10 1157	R.95	RESISTOR CF	56K	J	0W25
10 1125	R.96	RESISTOR CF	120E	J	0W25
10 1135	R.97	RESISTOR CF	820E	J	0W25

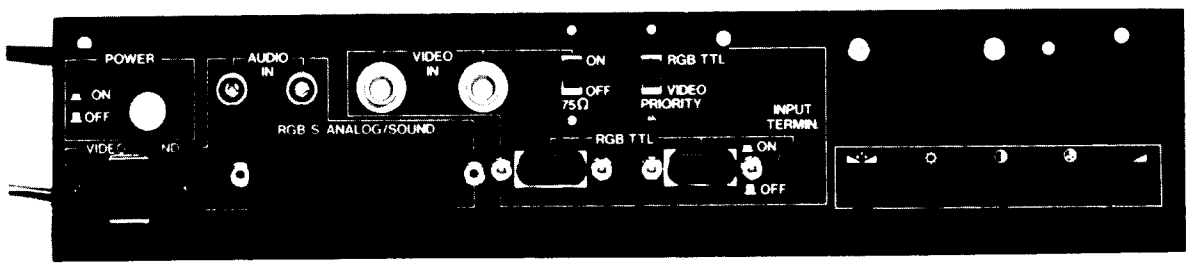
ITEM NO.	SIT.	DESCRIPTION			
10 1152	R.98	RESISTOR CF	22K	J	0W25
10 1153	R.99	RESISTOR CF	27K	J	0W25
10 1137	R100	RESISTOR CF	1K2	J	0W25
10 1136	R101	RESISTOR CF	1K	J	0W25
10 1147	R102	RESISTOR CF	8K2	J	0W25
10 1136	R103	RESISTOR CF	1K	J	0W25
10 1150	R104	RESISTOR CF	15K	J	0W25
10 1172	R105	RESISTOR CF	1M	J	0W25
10 1136	R106	RESISTOR CF	1K	J	0W25
10 1130	R108	RESISTOR CF	330E	J	0W25
10 1135	R109	RESISTOR CF	820E	J	0W25
10 1137	R110	RESISTOR CF	1K2	J	0W25
10 1153	R111	RESISTOR CF	27K	J	0W25
10 1140	R112	RESISTOR CF	2K2	J	0W25
10 1140	R113	RESISTOR CF	2K2	J	0W25
10 1140	R114	RESISTOR CF	2K2	J	0W25
10 1155	R115	RESISTOR CF	39K	J	0W25
10 1150	R116	RESISTOR CF	15K	J	0W25
10 1145	R117	RESISTOR CF	5K6	J	0W25
10 1163	R118	RESISTOR CF	180K	J	0W25
10 1156	R119	RESISTOR CF	47K	J	0W25
10 1168	R120	RESISTOR CF	470K	J	0W25
10 1168	R121	RESISTOR CF	470K	J	0W25
10 1148	R122	RESISTOR CF	10K	J	0W25
10 1136	R123	RESISTOR CF	1K	J	0W25
10 1156	R125	RESISTOR CF	47K	J	0W25
10 1124	R145	RESISTOR CF	100E	J	0W25
10 1124	R146	RESISTOR CF	100E	J	0W25
10 1151	R147	RESISTOR CF	18K	J	0W25
10 1148	R148	RESISTOR CF	10K	J	0W25
10 1149	R149	RESISTOR CF	12K	J	0W25
10 1138	R150	RESISTOR CF	1K5	J	0W25
10 1142	R151	RESISTOR CF	3K3	J	0W25
10 1137	R152	RESISTOR CF	1K2	J	0W25
10 1157	R153	RESISTOR CF	56K	J	0W25
10 1148	R154	RESISTOR CF	10K	J	0W25
10 1153	R155	RESISTOR CF	27K	J	0W25
10 1142	R156	RESISTOR CF	3K3	J	0W25
10 1137	R157	RESISTOR CF	1K2	J	0W25
10 1124	R200	RESISTOR CF	100E	J	0W25
13 1757	Z..1	DIODE ZENER 3V9 0W5 C			
13 1757	Z..2	DIODE ZENER 3V9 0W5 C			
31 3276	001.	CONNECTOR WAFER MOBTE P10 2,5			
31 33921	0011	CONNECTOR JUMP F TE P 2 2,5			
32 4190	002.	SWITCH DIL 1A 2P TE			
32 4188	003.	SWITCH DIL 1A 4P TE			
31 35011	004.	CONNECTOR DE09 FOBSE P 9			
80 0893	0041	CONNECTOR D SCREWLOCK			
36 7435	0042	RIVET AL AL AD34ABS D2,4			
31 3545	005.	CONNECTOR PERI FOBSE P21			
36 7455	0051	RIVET AL FE TAP/D/BS46 D3,2			
36 7502	0053	WASHER DIN6798 A 3,2			
72 1784	006.	KNOB TURN AXE 10,25MM			
42 0734	0061	KNOB TURN BLACK			
80 1092	007.	DPL I/O PSM1DCD2640			
36 2021	0071	SCREW DIN84 M 3 X 6 MP-			
36 7502	0072	WASHER DIN6798 A 3,2			
36 6102	0073	NUT DIN934 M 3 HEXAGONAL			
31 3140	008.	CONNECTOR BNC FOCTE P 1 R S			
72 1684	0081	ISOLSPACER BNC 40			
72 1685	0082	ISOLSPACER BNC 40			
80 0762	0083	SOLDERLUG SCREW 1TAG D9,8 L24			
32 4158	009.	SWITCH SLIDE 2U PC FIX PC			
34 8019	010.	WIRE TIE L100			
31 3336	011.	SPACER L 5,3 PCB			


AUDIO IN
PRIORITY
RGB
VIDEO
TTL INPUT
VS 9 5 L
HS 8 4 L
HL 7 3 B
CS 6 2 G
1 R
TTL INPUT
VIDEO IN
75Ω
ON
OFF
ANALOG INPUT
21
19
17 L VID
15 R
13 L R
11 G
9 L G
7 B
5 L B
3
1
RGB ON
ANALOG INPUT
VIDEO AUDIO INPUT

ITEM NO.	SIT.	DESCRIPTION
11 2773	C..1	CAPACITOR CE MI 68K U5 63
11 1680	C..2	CAPACITOR ELRABI 10M V 40
11 1680	C..3	CAPACITOR ELRABI 10M V 40
11 1548	C..4	CAPACITOR ELPRMI 2M2 M5 50
11 22415	C..5	CAPACITOR NPO MI 82P J5 63
11 1510	C..6	CAPACITOR ELPRMI 22M M5 25
11 3841	C..7	CAPACITOR PETPFP 220K M 63
11 2763	C..8	CAPACITOR CE MI 10K U5 63
11 1546	C..9	CAPACITOR ELPRMI 1M M5 50
11 11565	C.10	CAPACITOR ELAX 10M Z 25
11 2774	C.11	CAPACITOR CE MI 100K U5 63
11 11565	C.12	CAPACITOR ELAX 10M Z 25
11 2774	C.13	CAPACITOR CE MI 100K U5 63
11 2387	C.14	CAPACITOR N152MI 470P J5 63
11 1548	C.15	CAPACITOR ELPRMI 2M2 M5 50
11 2364	C.16	CAPACITOR N750MI 150P J5 63
11 1548	C.17	CAPACITOR ELPRMI 2M2 M5 50
11 2364	C.18	CAPACITOR N750MI 150P J5 63
11 1548	C.19	CAPACITOR ELPRMI 2M2 M5 50
11 2364	C.20	CAPACITOR N750MI 150P J5 63
11 11355	C.21	CAPACITOR ELAX 1000M T 10
11 2362	C.22	CAPACITOR N750MI 100P J5 63
11 2365	C.23	CAPACITOR N750MI 180P J5 63
11 2763	C.24	CAPACITOR CE MI 10K U5 63
11 2762	C.25	CAPACITOR CE MI 4K7 U5 63
11 2763	C.26	CAPACITOR CE MI 10K U5 63
11 3728	C.27	CAPACITOR POME 220K K5 63
11 3724	C.28	CAPACITOR POME 100K K5 63
11 2387	C.29	CAPACITOR N152MI 470P J5 63
11 1531	C.30	CAPACITOR ELPRMI 10M M5 35
11 2774	C.32	CAPACITOR CE MI 100K U5 63
11 1162	C.33	CAPACITOR ELAX 220M T 25
11 1510	C.34	CAPACITOR ELPRMI 22M M5 25
11 11565	C.35	CAPACITOR ELAX 10M Z 25
11 1163	C.36	CAPACITOR ELAX 470M T 25
11 1548	C.37	CAPACITOR ELPRMI 2M2 M5 50
11 3728	C.38	CAPACITOR POME 220K K5 63
11 1164	C.39	CAPACITOR ELAX 1000M T 25
11 3728	C.40	CAPACITOR POME 220K K5 63
11 11555	C.41	CAPACITOR ELAX 2M2 T 25
11 3728	C.42	CAPACITOR POME 220K K5 63
11 11555	C.43	CAPACITOR ELAX 2M2 T 25
11 1115	C.44	CAPACITOR ELAX 10M Z 6
11 11565	C.45	CAPACITOR ELAX 10M Z 25
11 2762	C.46	CAPACITOR CE MI 4K7 U5 63
11 2774	C.47	CAPACITOR CE MI 100K U5 63
13 1621	D..1	DIODE 1N4148 SWITCH
13 1621	D..2	DIODE 1N4148 SWITCH
13 1621	D..3	DIODE 1N4148 SWITCH
13 1621	D..4	DIODE 1N4148 SWITCH
13 1621	D..5	DIODE 1N4148 SWITCH
13 1621	D..6	DIODE 1N4148 SWITCH
13 1621	D..7	DIODE 1N4148 SWITCH
13 1621	D..8	DIODE 1N4148 SWITCH
13 1621	D..9	DIODE 1N4148 SWITCH
13 1621	D.10	DIODE 1N4148 SWITCH
13 1621	D.11	DIODE 1N4148 SWITCH
13 1621	D.12	DIODE 1N4148 SWITCH
13 1621	D.13	DIODE 1N4148 SWITCH
13 1621	D.14	DIODE 1N4148 SWITCH
13 1621	D.15	DIODE 1N4148 SWITCH
13 1621	D.16	DIODE 1N4148 SWITCH
13 1621	D.17	DIODE 1N4148 SWITCH
13 1644	D.22	DIODE 1N4001 RECTIFIER
13 1644	D.23	DIODE 1N4001 RECTIFIER
13 7494	I..1	INTEGRATED CIRCUIT 74LS86
13 7494	I..2	INTEGRATED CIRCUIT 74LS86
13 7480	I..3	INTEGRATED CIRCUIT 74LS123
13 7302	I..4	INTEGRATED CIRCUIT 4011B
13 2751	I..5	INTEGRATED CIRCUIT 2030V TDA
13 4010	I..7	INTEGRATED CIRCUIT 7815
13 4001	I..8	INTEGRATED CIRCUIT 7805
10 6105	P..1	TRIMPOT CAMH 2K2 M 0W05
10 6104	P..2	TRIMPOT CAMH 1K M 0W05
10 6112	P..3	TRIMPOT CAMH 220K M 0W05
10 6114	P..4	TRIMPOT CAMH 1M M 0W05
10 7167	P..5	POTMETER CARV 4K7 M 0W20
10 7167	P..6	POTMETER CARV 4K7 M 0W20
10 7167	P..7	POTMETER CARV 4K7 M 0W20
10 7167	P..8	POTMETER CARV 4K7 M 0W20
10 7167	P..9	POTMETER CARV 4K7 M 0W20
71 6211	PC..	PC 40 INP OUTP PSM AC26 761341
13 14182	Q..1	TRANSISTOR BC559C,BC309C
13 14182	Q..2	TRANSISTOR BC559C,BC309C
13 14182	Q..3	TRANSISTOR BC559C,BC309C
13 1411	Q..4	TRANSISTOR BC549C,BC239C
13 14182	Q..5	TRANSISTOR BC559C,BC309C
13 1411	Q..6	TRANSISTOR BC549C,BC239C
13 1411	Q..7	TRANSISTOR BC549C,BC239C
13 1411	Q..8	TRANSISTOR BC549C,BC239C
13 1411	Q..9	TRANSISTOR BC549C,BC239C
13 1411	Q.10	TRANSISTOR BC549C,BC239C
13 1411	Q.11	TRANSISTOR BC549C,BC239C
13 14182	Q.12	TRANSISTOR BC559C,BC309C
13 1411	Q.13	TRANSISTOR BC549C,BC239C
13 1411	Q.14	TRANSISTOR BC549C,BC239C
13 1411	Q.15	TRANSISTOR BC549C,BC239C
13 14182	Q.16	TRANSISTOR BC559C,BC309C
13 14182	Q.17	TRANSISTOR BC559C,BC309C
13 14182	Q.18	TRANSISTOR BC559C,BC309C
13 14182	Q.19	TRANSISTOR BC559C,BC309C
13 14182	Q.20	TRANSISTOR BC559C,BC309C
13 1411	Q.21	TRANSISTOR BC549C,BC239C
13 1411	Q.22	TRANSISTOR BC549C,BC239C
13 14182	Q.23	TRANSISTOR BC559C,BC309C
13 14182	Q.24	TRANSISTOR BC559C,BC309C
13 14182	Q.25	TRANSISTOR BC559C,BC309C
13 14182	Q.26	TRANSISTOR BC559C,BC309C
13 14182	Q.27	TRANSISTOR BC559C,BC309C
13 14182	Q.28	TRANSISTOR BC559C,BC309C
13 14182	Q.29	TRANSISTOR BC559C,BC309C
13 14182	Q.30	TRANSISTOR BC559C,BC309C
13 14182	Q.31	TRANSISTOR BC559C,BC309C
13 1411	Q.32	TRANSISTOR BC549C,BC239C
13 14182	Q.33	TRANSISTOR BC559C,BC309C
13 14182	Q.34	TRANSISTOR BC559C,BC309C
13 14182	Q.35	TRANSISTOR BC559C,BC309C
13 14182	Q.36	TRANSISTOR BC559C,BC309C
13 1411	Q.37	TRANSISTOR BC549C,BC239C
13 14182	Q.38	TRANSISTOR BC559C,BC309C
13 1411	Q.39	TRANSISTOR BC549C,BC239C
13 14182	Q.40	TRANSISTOR BC559C,BC309C
13 1411	Q.41	TRANSISTOR BC549C,BC239C
13 14182	Q.42	TRANSISTOR BC559C,BC309C
13 14182	Q.43	TRANSISTOR BC559C,BC309C
13 14182	Q.44	TRANSISTOR BC559C,BC309C
13 14182	Q.45	TRANSISTOR BC559C,BC309C
13 1411	Q.46	TRANSISTOR BC549C,BC239C
13 1411	Q.47	TRANSISTOR BC549C,BC239C
13 1411	Q.48	TRANSISTOR BC549C,BC239C
13 1411	Q.49	TRANSISTOR BC549C,BC239C
13 1411	Q.50	TRANSISTOR BC549C,BC239C
13 14182	Q.51	TRANSISTOR BC559C,BC309C
10 1141	R..1	RESISTOR CF 2K7 J 0W25

ITEM NO.	SIT.	DESCRIPTION			
10 11231	R..2	RESISTOR CF	75E	J	0W25
10 1124	R..3	RESISTOR CF	100E	J	0W25
10 1153	R..4	RESISTOR CF	27K	J	0W25
10 1130	R..5	RESISTOR CF	330E	J	0W25
10 1136	R..6	RESISTOR CF	1K	J	0W25
10 1138	R..7	RESISTOR CF	1K5	J	0W25
10 1130	R..8	RESISTOR CF	330E	J	0W25
10 1153	R..9	RESISTOR CF	27K	J	0W25
10 1124	R.10	RESISTOR CF	100E	J	0W25
10 1141	R.11	RESISTOR CF	2K7	J	0W25
10 1142	R.12	RESISTOR CF	3K3	J	0W25
10 1139	R.13	RESISTOR CF	1K8	J	0W25
10 1166	R.14	RESISTOR CF	330K	J	0W25
10 1154	R.15	RESISTOR CF	33K	J	0W25
10 1160	R.16	RESISTOR CF	100K	J	0W25
10 1148	R.17	RESISTOR CF	10K	J	0W25
10 1164	R.18	RESISTOR CF	220K	J	0W25
10 1134	R.19	RESISTOR CF	680E	J	0W25
10 1156	R.20	RESISTOR CF	47K	J	0W25
10 1136	R.21	RESISTOR CF	1K	J	0W25
10 1132	R.22	RESISTOR CF	470E	J	0W25
10 1126	R.23	RESISTOR CF	150E	J	0W25
10 1122	R.24	RESISTOR CF	68E	J	0W25
10 1160	R.25	RESISTOR CF	100K	J	0W25
10 1160	R.26	RESISTOR CF	100K	J	0W25
10 1148	R.27	RESISTOR CF	10K	J	0W25
10 1148	R.28	RESISTOR CF	10K	J	0W25
10 1136	R.29	RESISTOR CF	1K	J	0W25
10 1152	R.30	RESISTOR CF	22K	J	0W25
10 1168	R.31	RESISTOR CF	470K	J	0W25
10 1148	R.32	RESISTOR CF	10K	J	0W25
10 1162	R.33	RESISTOR CF	150K	J	0W25
10 1162	R.34	RESISTOR CF	150K	J	0W25
10 1160	R.35	RESISTOR CF	100K	J	0W25
10 1137	R.36	RESISTOR CF	1K2	J	0W25
10 1162	R.37	RESISTOR CF	150K	J	0W25
10 1137	R.38	RESISTOR CF	1K2	J	0W25
10 1156	R.39	RESISTOR CF	47K	J	0W25
10 1136	R.41	RESISTOR CF	1K	J	0W25
10 1135	R.42	RESISTOR CF	820E	J	0W25
10 1137	R.43	RESISTOR CF	1K2	J	0W25
10 1148	R.44	RESISTOR CF	10K	J	0W25
10 1135	R.45	RESISTOR CF	820E	J	0W25
10 1125	R.46	RESISTOR CF	120E	J	0W25
10 1130	R.47	RESISTOR CF	330E	J	0W25
10 1135	R.48	RESISTOR CF	820E	J	0W25
10 1137	R.49	RESISTOR CF	1K2	J	0W25
10 1136	R.51	RESISTOR CF	1K	J	0W25
10 1135	R.52	RESISTOR CF	820E	J	0W25
10 1137	R.53	RESISTOR CF	1K2	J	0W25
10 1135	R.54	RESISTOR CF	820E	J	0W25
10 1130	R.55	RESISTOR CF	330E	J	0W25
10 1129	R.56	RESISTOR CF	270E	J	0W25
10 1136	R.58	RESISTOR CF	1K	J	0W25
10 1135	R.59	RESISTOR CF	820E	J	0W25
10 1137	R.60	RESISTOR CF	1K2	J	0W25
10 1135	R.61	RESISTOR CF	820E	J	0W25
10 1136	R.62	RESISTOR CF	1K	J	0W25
10 1130	R.63	RESISTOR CF	330E	J	0W25
10 1136	R.65	RESISTOR CF	1K	J	0W25
10 1135	R.66	RESISTOR CF	820E	J	0W25
10 1153	R.67	RESISTOR CF	27K	J	0W25
10 1137	R.68	RESISTOR CF	1K2	J	0W25
10 1162	R.69	RESISTOR CF	150K	J	0W25
10 1157	R.70	RESISTOR CF	56K	J	0W25
10 1156	R.71	RESISTOR CF	47K	J	0W25
10 1136	R.72	RESISTOR CF	1K	J	0W25
10 1136	R.73	RESISTOR CF	1K	J	0W25
10 11231	R.74	RESISTOR CF	75E	J	0W25
10 1119	R.75	RESISTOR CF	39E	J	0W25
10 1157	R.76	RESISTOR CF	56K	J	0W25
10 1156	R.77	RESISTOR CF	47K	J	0W25
10 1136	R.78	RESISTOR CF	1K	J	0W25
10 1136	R.79	RESISTOR CF	1K	J	0W25
10 11231	R.80	RESISTOR CF	75E	J	0W25
10 1119	R.81	RESISTOR CF	39E	J	0W25
10 1157	R.82	RESISTOR CF	56K	J	0W25
10 1156	R.83	RESISTOR CF	47K	J	0W25
10 1136	R.84	RESISTOR CF	1K	J	0W25
10 1136	R.85	RESISTOR CF	1K	J	0W25
10 11231	R.86	RESISTOR CF	75E	J	0W25
10 1119	R.87	RESISTOR CF	39E	J	0W25
10 1136	R.89	RESISTOR CF	1K	J	0W25
10 1135	R.90	RESISTOR CF	820E	J	0W25
10 1153	R.91	RESISTOR CF	27K	J	0W25
10 1137	R.92	RESISTOR CF	1K2	J	0W25
10 1144	R.93	RESISTOR CF	4K7	J	0W25
10 1153	R.94	RESISTOR CF	27K	J	0W25
10 1157	R.95	RESISTOR CF	56K	J	0W25
10 1125	R.96	RESISTOR CF	120E	J	0W25
10 1135	R.97	RESISTOR CF	820E	J	0W25
10 1152	R.98	RESISTOR CF	22K	J	0W25
10 1137	R100	RESISTOR CF	1K2	J	0W25
10 1153	R.99	RESISTOR CF	27K	J	0W25
10 1136	R101	RESISTOR CF	1K	J	0W25
10 1147	R102	RESISTOR CF	8K2	J	0W25
10 1136	R103	RESISTOR CF	1K	J	0W25
10 1150	R104	RESISTOR CF	15K	J	0W25
10 1172	R105	RESISTOR CF	1M	J	0W25
10 1136	R106	RESISTOR CF	1K	J	0W25
10 1136	R108	RESISTOR CF	1K	J	0W25
10 1135	R109	RESISTOR CF	820E	J	0W25
10 1137	R110	RESISTOR CF	1K2	J	0W25
10 1153	R111	RESISTOR CF	27K	J	0W25
10 1140	R112	RESISTOR CF	2K2	J	0W25
10 1140	R113	RESISTOR CF	2K2	J	0W25
10 1140	R114	RESISTOR CF	2K2	J	0W25
10 1155	R115	RESISTOR CF	39K	J	0W25
10 1150	R116	RESISTOR CF	15K	J	0W25
10 1145	R117	RESISTOR CF	5K6	J	0W25
10 1163	R118	RESISTOR CF	180K	J	0W25
10 1156	R119	RESISTOR CF	47K	J	0W25
10 1168	R120	RESISTOR CF	470K	J	0W25
10 1168	R121	RESISTOR CF	470K	J	0W25
10 1148	R122	RESISTOR CF	10K	J	0W25
10 1136	R123	RESISTOR CF	1K	J	0W25
10 1156	R124	RESISTOR CF	47K	J	0W25
10 1156	R125	RESISTOR CF	47K	J	0W25
10 11289	R126	RESISTOR CFFUL	220E	J	0W25
10 1160	R127	RESISTOR CF	100K	J	0W25
10 1160	R128	RESISTOR CF	100K	J	0W25
10 1160	R129	RESISTOR CF	100K	J	0W25
10 1135	R130	RESISTOR CF	820E	J	0W25
10 1143	R131	RESISTOR CF	3K9	J	0W25
10 1144	R132	RESISTOR CF	4K7	J	0W25
10 1162	R133	RESISTOR CF	150K	J	0W25
10 1160	R134	RESISTOR CF	100K	J	0W25
10 1100	R135	RESISTOR CF	1E	J	0W25
10 1160	R136	RESISTOR CF	100K	J	0W25
10 1136	R137	RESISTOR CF	1K	J	0W25
10 1142	R141	RESISTOR CF	3K3	J	0W25
10 1136	R142	RESISTOR CF	1K	J	0W25
10 1155	R143	RESISTOR CF	39K	J	0W25
10 1124	R145	RESISTOR CF	100E	J	0W25
10 1124	R146	RESISTOR CF	100E	J	0W25
10 1151	R147	RESISTOR CF	18K	J	0W25
10 1148	R148	RESISTOR CF	10K	J	0W25
10 1149	R149	RESISTOR CF	12K	J	0W25
10 1138	R150	RESISTOR CF	1K5	J	0W25
10 1142	R151	RESISTOR CF	3K3	J	0W25

ITEM NO.	SIT.	DESCRIPTION
10 1137	R152	RESISTOR CF 1K2 J 0W25
10 1157	R153	RESISTOR CF 56K J 0W25
10 1148	R154	RESISTOR CF 10K J 0W25
10 1153	R155	RESISTOR CF 27K J 0W25
10 1140	R156	RESISTOR CF 2K2 J 0W25
10 1137	R157	RESISTOR CF 1K2 J 0W25
10 1128	R158	RESISTOR CF 220E J 0W25
13 1757	Z..1	DIODE ZENER 3V9 0W5 C
13 1757	Z..2	DIODE ZENER 3V9 0W5 C
31 3276	001.	CONNECTOR WAFER MOBTE P10 2,5
31 33921	0011	CONNECTOR JUMP F TE P 2 2,5
32 4190	002.	SWITCH DIL 1A 2P TE
32 4188	003.	SWITCH DIL 1A 4P TE
31 35011	004.	CONNECTOR DE09 FOBSE P 9
80 0893	0041	CONNECTOR D SCREWLOCK
36 7435	0045	RIVET AL AL AD34ABS D2,4
31 3545	005.	CONNECTOR PERI FOBSE P21
36 7455	0051	RIVET AL FE TAP/D/BS46 D3,2
72 1784	006.	KNOB TURN AXE 10,25MM
42 0734	0061	KNOB TURN BLACK
80 1139	007.	DPL I/O PSM DCD2740
36 2121	0071	SCREW DIN7985 M 3 X 6 MP+
36 7502	0072	WASHER DIN6798 A 3,2
36 6102	0073	NUT DIN934 M 3 HEXAGONAL
31 3140	008.	CONNECTOR BNC FOCTE P 1 R S
72 1684	0081	ISOLSPACER BNC 40
72 1685	0082	ISOLSPACER BNC 40
80 0762	0083	SOLDERLUG SCREW 1TAG D9,8 L24
32 4158	009.	SWITCH SLIDE 2U PC FIX PC
34 8019	010.	WIRE TIE L100
31 3138	011.	CONNECTOR HONDA FOBTE P 8
31 31021	012.	CONNECTOR CINCH FOBTE P 1
71 4651	014.	HEATSINK 34 TELETEXT 761009
80 1530	014.	HEATSINK 40 INP OUTP PSM761343
36 2121	0141	SCREW DIN7985 M 3 X 6 MP+
36 7502	0142	WASHER DIN6798 A 3,2
36 6102	0143	NUT DIN934 M 3 HEXAGONAL
34 20091	015.	WIRE TIE FIX 5 TM2
36 7454	0151	RIVET AL FE TAP/D/BS44 D3,2
31 3336	016.	SPACER L 5,3 PCB
32 4715	017.	SWITCH MAINS 2A
72 1696	0171	ISOL SWITCH CS40
36 3602	0172	SCREW DIN7981 2,9X 9,5 MP+C
72 1795	0173	KNOB PUSH RED DCD2740
72 1834	0174	KNOB CENTER DCD2740
36 3511	0175	SCREW DIN7971 2,2X 9,5 MP-C
31 3594	0176	CONNECTOR EDGE FOBTE P13 2,5
31 3575	0177	CONNECTOR EDGE FOBTE P12 2,5

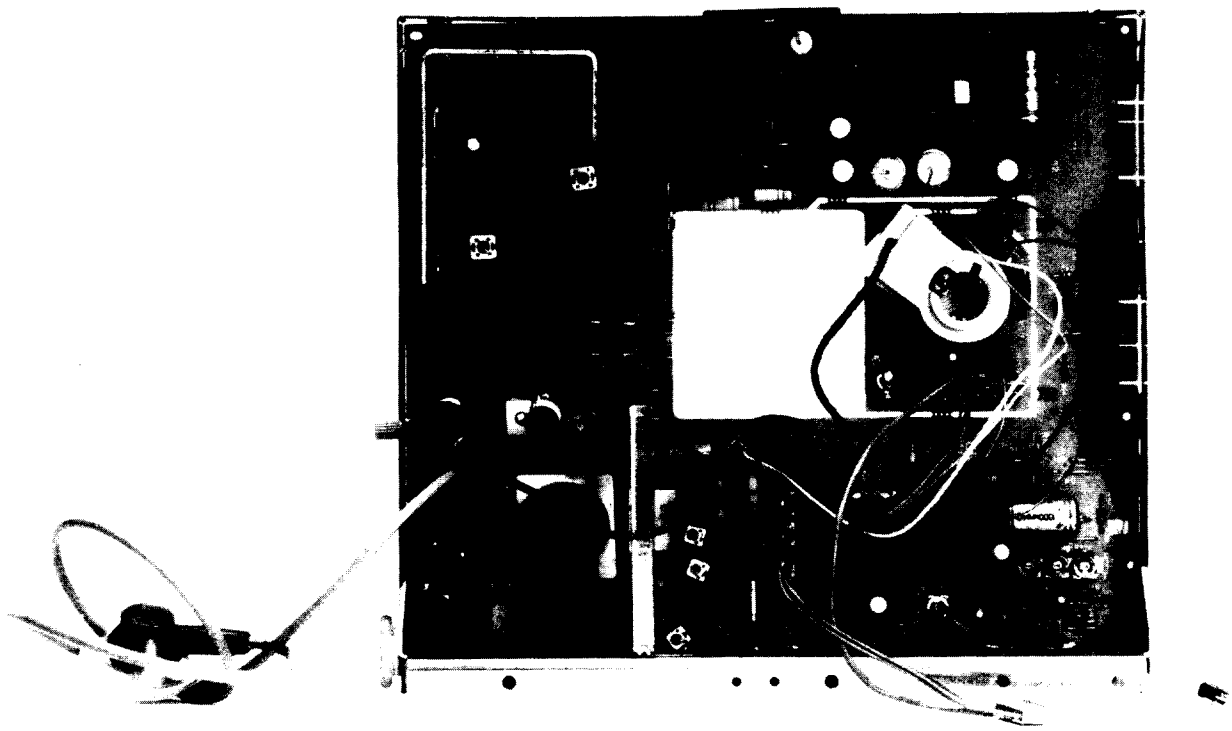

POWER
ON
OFF
AUDIO IN
VIDEO IN
RGB S ANALOG/SOUND
ON
OFF 75Ω
RGB TTL
VIDEO PRIORITY
INPUT TERMIN.
RGB TTL
ON
OFF

ITEM NO.	SIT.	DESCRIPTION
11 2773	C..1	CAPACITOR CE MI 68K U5 63
11 1680	C..2	CAPACITOR ELRABI 10M V 40
11 1680	C..3	CAPACITOR ELRABI 10M V 40
11 1548	C..4	CAPACITOR ELPRMI 2M2 M5 50
11 22415	C..5	CAPACITOR NPO MI 82P J5 63
11 1510	C..6	CAPACITOR ELPRMI 22M M5 25
11 3728	C..7	CAPACITOR POME 220K K5 63
11 2763	C..8	CAPACITOR CE MI 10K U5 63
11 1546	C..9	CAPACITOR ELPRMI 1M M5 50
11 11565	C.10	CAPACITOR ELAX 10M Z 25
11 2774	C.11	CAPACITOR CE MI 100K U5 63
11 11565	C.12	CAPACITOR ELAX 10M Z 25
11 2774	C.13	CAPACITOR CE MI 100K U5 63
11 2387	C.14	CAPACITOR N152MI 470P J5 63
11 1548	C.15	CAPACITOR ELPRMI 2M2 M5 50
11 2364	C.16	CAPACITOR N750MI 150P J5 63
11 1548	C.17	CAPACITOR ELPRMI 2M2 M5 50
11 2364	C.18	CAPACITOR N750MI 150P J5 63
11 1548	C.19	CAPACITOR ELPRMI 2M2 M5 50
11 2364	C.20	CAPACITOR N750MI 150P J5 63
11 11355	C.21	CAPACITOR ELAX 1000M T 10
11 2362	C.22	CAPACITOR N750MI 100P J5 63
11 2365	C.23	CAPACITOR N750MI 180P J5 63
11 2763	C.24	CAPACITOR CE MI 10K U5 63
11 2762	C.25	CAPACITOR CE MI 4K7 U5 63
11 2763	C.26	CAPACITOR CE MI 10K U5 63
11 3728	C.27	CAPACITOR POME 220K K5 63
11 3724	C.28	CAPACITOR POME 100K K5 63
11 2387	C.29	CAPACITOR N152MI 470P J5 63
11 1531	C.30	CAPACITOR ELPRMI 10M M5 35
11 2774	C.32	CAPACITOR CE MI 100K U5 63
11 1162	C.33	CAPACITOR ELAX 220M T 25
11 1510	C.34	CAPACITOR ELPRMI 22M M5 25
11 11565	C.35	CAPACITOR ELAX 10M Z 25
11 1163	C.36	CAPACITOR ELAX 470M T 25
11 1548	C.37	CAPACITOR ELPRMI 2M2 M5 50
11 3728	C.38	CAPACITOR POME 220K K5 63
11 1164	C.39	CAPACITOR ELAX 1000M T 25
11 3728	C.40	CAPACITOR POME 220K K5 63
11 11555	C.41	CAPACITOR ELAX 2M2 T 25
11 3728	C.42	CAPACITOR POME 220K K5 63
11 11555	C.43	CAPACITOR ELAX 2M2 T 25
11 1115	C.44	CAPACITOR ELAX 10M Z 6
11 11565	C.45	CAPACITOR ELAX 10M Z 25
11 2762	C.46	CAPACITOR CE MI 4K7 U5 63
11 2774	C.47	CAPACITOR CE MI 100K U5 63
13 1621	D..1	DIODE 1N4148 SWITCH
13 1621	D..2	DIODE 1N4148 SWITCH
13 1621	D..3	DIODE 1N4148 SWITCH
13 1621	D..4	DIODE 1N4148 SWITCH
13 1621	D..5	DIODE 1N4148 SWITCH
13 1621	D..6	DIODE 1N4148 SWITCH
13 1621	D..7	DIODE 1N4148 SWITCH
13 1621	D..8	DIODE 1N4148 SWITCH
13 1621	D..9	DIODE 1N4148 SWITCH
13 1621	D.10	DIODE 1N4148 SWITCH
13 1621	D.11	DIODE 1N4148 SWITCH
13 1621	D.12	DIODE 1N4148 SWITCH
13 1621	D.13	DIODE 1N4148 SWITCH
13 1621	D.14	DIODE 1N4148 SWITCH
13 1621	D.15	DIODE 1N4148 SWITCH
13 1621	D.16	DIODE 1N4148 SWITCH
13 1621	D.17	DIODE 1N4148 SWITCH
13 1644	D.22	DIODE 1N4001 RECTIFIER
13 1644	D.23	DIODE 1N4001 RECTIFIER
13 7494	I..1	INTEGRATED CIRCUIT 74LS86
13 7494	I..2	INTEGRATED CIRCUIT 74LS86
13 7480	I..3	INTEGRATED CIRCUIT 74LS123
13 7302	I..4	INTEGRATED CIRCUIT 4011B
13 2751	I..5	INTEGRATED CIRCUIT 2030V TDA
13 4010	I..7	INTEGRATED CIRCUIT 7815
13 4001	I..8	INTEGRATED CIRCUIT 7805
10 6105	P..1	TRIMPOT CAMH 2K2 M 0W05
10 6104	P..2	TRIMPOT CAMH 1K M 0W05
10 6112	P..3	TRIMPOT CAMH 220K M 0W05
10 6114	P..4	TRIMPOT CAMH 1M M 0W05
10 7167	P..5	POTMETER CARV 4K7 M 0W20
10 7167	P..6	POTMETER CARV 4K7 M 0W20
10 7167	P..7	POTMETER CARV 4K7 M 0W20
10 7167	P..8	POTMETER CARV 4K7 M 0W20
10 7167	P..9	POTMETER CARV 4K7 M 0W20
71 6211	PC..	PC 40 INP OUTP PSM AC26 761341
13 14182	Q..1	TRANSISTOR BC559C,BC309C
13 14182	Q..2	TRANSISTOR BC559C,BC309C
13 14182	Q..3	TRANSISTOR BC559C,BC309C
13 1411	Q..4	TRANSISTOR BC549C,BC239C
13 14182	Q..5	TRANSISTOR BC559C,BC309C
13 1411	Q..6	TRANSISTOR BC549C,BC239C
13 1411	Q..7	TRANSISTOR BC549C,BC239C
13 1411	Q..8	TRANSISTOR BC549C,BC239C
13 1411	Q..9	TRANSISTOR BC549C,BC239C
13 1411	Q.10	TRANSISTOR BC549C,BC239C
13 1411	Q.11	TRANSISTOR BC549C,BC239C
13 14182	Q.12	TRANSISTOR BC559C,BC309C
13 1411	Q.13	TRANSISTOR BC549C,BC239C
13 1411	Q.14	TRANSISTOR BC549C,BC239C
13 1411	Q.15	TRANSISTOR BC549C,BC239C
13 14182	Q.16	TRANSISTOR BC559C,BC309C
13 14182	Q.17	TRANSISTOR BC559C,BC309C
13 14182	Q.18	TRANSISTOR BC559C,BC309C
13 14182	Q.19	TRANSISTOR BC559C,BC309C
13 14182	Q.20	TRANSISTOR BC559C,BC309C
13 1411	Q.21	TRANSISTOR BC549C,BC239C
13 1411	Q.22	TRANSISTOR BC549C,BC239C
13 14182	Q.23	TRANSISTOR BC559C,BC309C
13 14182	Q.24	TRANSISTOR BC559C,BC309C
13 14182	Q.25	TRANSISTOR BC559C,BC309C
13 14182	Q.26	TRANSISTOR BC559C,BC309C
13 14182	Q.27	TRANSISTOR BC559C,BC309C
13 14182	Q.28	TRANSISTOR BC559C,BC309C
13 14182	Q.29	TRANSISTOR BC559C,BC309C
13 14182	Q.30	TRANSISTOR BC559C,BC309C
13 14182	Q.31	TRANSISTOR BC559C,BC309C
13 1411	Q.32	TRANSISTOR BC549C,BC239C
13 14182	Q.33	TRANSISTOR BC559C,BC309C
13 14182	Q.34	TRANSISTOR BC559C,BC309C
13 14182	Q.35	TRANSISTOR BC559C,BC309C
13 14182	Q.36	TRANSISTOR BC559C,BC309C
13 1411	Q.37	TRANSISTOR BC549C,BC239C
13 14182	Q.38	TRANSISTOR BC559C,BC309C
13 1411	Q.39	TRANSISTOR BC549C,BC239C
13 14182	Q.40	TRANSISTOR BC559C,BC309C
13 1411	Q.41	TRANSISTOR BC549C,BC239C
13 14182	Q.42	TRANSISTOR BC559C,BC309C
13 14182	Q.43	TRANSISTOR BC559C,BC309C
13 14182	Q.44	TRANSISTOR BC559C,BC309C
13 14182	Q.45	TRANSISTOR BC559C,BC309C
13 1411	Q.46	TRANSISTOR BC549C,BC239C
13 1411	Q.47	TRANSISTOR BC549C,BC239C
13 1411	Q.48	TRANSISTOR BC549C,BC239C
13 1411	Q.49	TRANSISTOR BC549C,BC239C
13 1411	Q.50	TRANSISTOR BC549C,BC239C
13 14182	Q.51	TRANSISTOR BC559C,BC309C
10 1141	R..1	RESISTOR CF 2K7 J 0W25

ITEM NO.	SIT.	DESCRIPTION			
10 11231	R..2	RESISTOR CF	75E	J	0W25
10 1124	R..3	RESISTOR CF	100E	J	0W25
10 1153	R..4	RESISTOR CF	27K	J	0W25
10 1130	R..5	RESISTOR CF	330E	J	0W25
10 1136	R..6	RESISTOR CF	1K	J	0W25
10 1138	R..7	RESISTOR CF	1K5	J	0W25
10 1130	R..8	RESISTOR CF	330E	J	0W25
10 1153	R..9	RESISTOR CF	27K	J	0W25
10 1124	R.10	RESISTOR CF	100E	J	0W25
10 1141	R.11	RESISTOR CF	2K7	J	0W25
10 1142	R.12	RESISTOR CF	3K3	J	0W25
10 1139	R.13	RESISTOR CF	1K8	J	0W25
10 1166	R.14	RESISTOR CF	330K	J	0W25
10 1154	R.15	RESISTOR CF	33K	J	0W25
10 1160	R.16	RESISTOR CF	100K	J	0W25
10 1148	R.17	RESISTOR CF	10K	J	0W25
10 1164	R.18	RESISTOR CF	220K	J	0W25
10 1134	R.19	RESISTOR CF	680E	J	0W25
10 1156	R.20	RESISTOR CF	47K	J	0W25
10 1136	R.21	RESISTOR CF	1K	J	0W25
10 1132	R.22	RESISTOR CF	470E	J	0W25
10 1126	R.23	RESISTOR CF	150E	J	0W25
10 1122	R.24	RESISTOR CF	68E	J	0W25
10 1160	R.25	RESISTOR CF	100K	J	0W25
10 1160	R.26	RESISTOR CF	100K	J	0W25
10 1148	R.27	RESISTOR CF	10K	J	0W25
10 1148	R.28	RESISTOR CF	10K	J	0W25
10 1136	R.29	RESISTOR CF	1K	J	0W25
10 1152	R.30	RESISTOR CF	22K	J	0W25
10 1168	R.31	RESISTOR CF	470K	J	0W25
10 1148	R.32	RESISTOR CF	10K	J	0W25
10 1162	R.33	RESISTOR CF	150K	J	0W25
10 1162	R.34	RESISTOR CF	150K	J	0W25
10 1160	R.35	RESISTOR CF	100K	J	0W25
10 1137	R.36	RESISTOR CF	1K2	J	0W25
10 1162	R.37	RESISTOR CF	150K	J	0W25
10 1137	R.38	RESISTOR CF	1K2	J	0W25
10 1156	R.39	RESISTOR CF	47K	J	0W25
10 1130	R.41	RESISTOR CF	330E	J	0W25
10 1135	R.42	RESISTOR CF	820E	J	0W25
10 1137	R.43	RESISTOR CF	1K2	J	0W25
10 1148	R.44	RESISTOR CF	10K	J	0W25
10 1135	R.45	RESISTOR CF	820E	J	0W25
10 1125	R.46	RESISTOR CF	120E	J	0W25
10 1130	R.47	RESISTOR CF	330E	J	0W25
10 1135	R.48	RESISTOR CF	820E	J	0W25
10 1137	R.49	RESISTOR CF	1K2	J	0W25
10 1130	R.51	RESISTOR CF	330E	J	0W25
10 1135	R.52	RESISTOR CF	820E	J	0W25
10 1137	R.53	RESISTOR CF	1K2	J	0W25
10 1135	R.54	RESISTOR CF	820E	J	0W25
10 1130	R.55	RESISTOR CF	330E	J	0W25
10 1129	R.56	RESISTOR CF	270E	J	0W25
10 1130	R.58	RESISTOR CF	330E	J	0W25
10 1135	R.59	RESISTOR CF	820E	J	0W25
10 1137	R.60	RESISTOR CF	1K2	J	0W25
10 1135	R.61	RESISTOR CF	820E	J	0W25
10 1136	R.62	RESISTOR CF	1K	J	0W25
10 1130	R.63	RESISTOR CF	330E	J	0W25
10 1130	R.65	RESISTOR CF	330E	J	0W25
10 1135	R.66	RESISTOR CF	820E	J	0W25
10 1153	R.67	RESISTOR CF	27K	J	0W25
10 1137	R.68	RESISTOR CF	1K2	J	0W25
10 1162	R.69	RESISTOR CF	150K	J	0W25
10 1157	R.70	RESISTOR CF	56K	J	0W25
10 1156	R.71	RESISTOR CF	47K	J	0W25
10 1136	R.72	RESISTOR CF	1K	J	0W25
10 1136	R.73	RESISTOR CF	1K	J	0W25
10 11231	R.74	RESISTOR CF	75E	J	0W25
10 1119	R.75	RESISTOR CF	39E	J	0W25
10 1157	R.76	RESISTOR CF	56K	J	0W25
10 1156	R.77	RESISTOR CF	47K	J	0W25
10 1136	R.78	RESISTOR CF	1K	J	0W25
10 1136	R.79	RESISTOR CF	1K	J	0W25
10 11231	R.80	RESISTOR CF	75E	J	0W25
10 1119	R.81	RESISTOR CF	39E	J	0W25
10 1157	R.82	RESISTOR CF	56K	J	0W25
10 1156	R.83	RESISTOR CF	47K	J	0W25
10 1136	R.84	RESISTOR CF	1K	J	0W25
10 1136	R.85	RESISTOR CF	1K	J	0W25
10 11231	R.86	RESISTOR CF	75E	J	0W25
10 1119	R.87	RESISTOR CF	39E	J	0W25
10 1130	R.89	RESISTOR CF	330E	J	0W25
10 1135	R.90	RESISTOR CF	820E	J	0W25
10 1153	R.91	RESISTOR CF	27K	J	0W25
10 1137	R.92	RESISTOR CF	1K2	J	0W25
10 1144	R.93	RESISTOR CF	4K7	J	0W25
10 1153	R.94	RESISTOR CF	27K	J	0W25
10 1157	R.95	RESISTOR CF	56K	J	0W25
10 1125	R.96	RESISTOR CF	120E	J	0W25
10 1135	R.97	RESISTOR CF	820E	J	0W25
10 1152	R.98	RESISTOR CF	22K	J	0W25
10 1153	R.99	RESISTOR CF	27K	J	0W25
10 1137	R100	RESISTOR CF	1K2	J	0W25
10 1136	R101	RESISTOR CF	1K	J	0W25
10 1147	R102	RESISTOR CF	8K2	J	0W25
10 1136	R103	RESISTOR CF	1K	J	0W25
10 1150	R104	RESISTOR CF	15K	J	0W25
10 1172	R105	RESISTOR CF	1M	J	0W25
10 1136	R106	RESISTOR CF	1K	J	0W25
10 1130	R108	RESISTOR CF	330E	J	0W25
10 1135	R109	RESISTOR CF	820E	J	0W25
10 1137	R110	RESISTOR CF	1K2	J	0W25
10 1153	R111	RESISTOR CF	27K	J	0W25
10 1140	R112	RESISTOR CF	2K2	J	0W25
10 1140	R113	RESISTOR CF	2K2	J	0W25
10 1140	R114	RESISTOR CF	2K2	J	0W25
10 1155	R115	RESISTOR CF	39K	J	0W25
10 1150	R116	RESISTOR CF	15K	J	0W25
10 1145	R117	RESISTOR CF	5K6	J	0W25
10 1163	R118	RESISTOR CF	180K	J	0W25
10 1156	R119	RESISTOR CF	47K	J	0W25
10 1168	R120	RESISTOR CF	470K	J	0W25
10 1168	R121	RESISTOR CF	470K	J	0W25
10 1148	R122	RESISTOR CF	10K	J	0W25
10 1136	R123	RESISTOR CF	1K	J	0W25
10 1156	R124	RESISTOR CF	47K	J	0W25
10 1156	R125	RESISTOR CF	47K	J	0W25
10 11289	R126	RESISTOR CFFUL	220E	J	0W25
10 1160	R127	RESISTOR CF	100K	J	0W25
10 1160	R128	RESISTOR CF	100K	J	0W25
10 1160	R129	RESISTOR CF	100K	J	0W25
10 1135	R130	RESISTOR CF	820E	J	0W25
10 1143	R131	RESISTOR CF	3K9	J	0W25
10 1144	R132	RESISTOR CF	4K7	J	0W25
10 1162	R133	RESISTOR CF	150K	J	0W25
10 1160	R134	RESISTOR CF	100K	J	0W25
10 1100	R135	RESISTOR CF	1E	J	0W25
10 1160	R136	RESISTOR CF	100K	J	0W25
10 1136	R137	RESISTOR CF	1K	J	0W25
10 1142	R141	RESISTOR CF	3K3	J	0W25
10 1136	R142	RESISTOR CF	1K	J	0W25
10 1155	R143	RESISTOR CF	39K	J	0W25
10 1124	R145	RESISTOR CF	100E	J	0W25
10 1124	R146	RESISTOR CF	100E	J	0W25
10 1151	R147	RESISTOR CF	18K	J	0W25
10 1148	R148	RESISTOR CF	10K	J	0W25
10 1149	R149	RESISTOR CF	12K	J	0W25
10 1138	R150	RESISTOR CF	1K5	J	0W25
10 1142	R151	RESISTOR CF	3K3	J	0W25

ITEM NO.	SIT.	DESCRIPTION
10 1137	R152	RESISTOR CF 1K2 J 0W25
10 1157	R153	RESISTOR CF 56K J 0W25
10 1148	R154	RESISTOR CF 10K J 0W25
10 1153	R155	RESISTOR CF 27K J 0W25
10 1140	R156	RESISTOR CF 2K2 J 0W25
10 1137	R157	RESISTOR CF 1K2 J 0W25
10 1128	R158	RESISTOR CF 220E J 0W25
13 1757	Z..1	DIODE ZENER 3V9 0W5 C
13 1757	Z..2	DIODE ZENER 3V9 0W5 C
31 3276	001.	CONNECTOR WAFER MOBTE P10 2,5
31 33921	0011	CONNECTOR JUMP F TE P 2 2,5
32 4190	002.	SWITCH DIL 1A 2P TE
32 4188	003.	SWITCH DIL 1A 4P TE
31 35011	004.	CONNECTOR DE09 FOBSE P 9
80 0893	0041	CONNECTOR D SCREWLOCK
36 7435	0045	RIVET AL AL AD34ABS D2,4
31 3545	005.	CONNECTOR PERI FOBSE P21
36 7455	0051	RIVET AL FE TAP/D/BS46 D3,2
72 1784	006.	KNOB TURN AXE 10,25MM
42 0734	0061	KNOB TURN BLACK
80 1204	007.	DPL I/O PSM DCD2640

ITEM NO.	SIT.	DESCRIPTION
36 2121	0071	SCREW DIN7985 M 3 X 6 MP+
36 7502	0072	WASHER DIN6798 A 3,2
36 6102	0073	NUT DIN934 M 3 HEXAGONAL
31 3140	008.	CONNECTOR BNC FOCTE P 1 R S
72 1684	0081	ISOLSPACER BNC 40
72 1685	0082	ISOLSPACER BNC 40
80 0762	0083	SOLDERLUG SCREW 1TAG D9,8 L24
32 4158	009.	SWITCH SLIDE 2U PC FIX PC
34 8019	010.	WIRE TIE L100
31 3138	011.	CONNECTOR HONDA FOBTE P 8
31 31021	012.	CONNECTOR CINCH FOBTE P 1
80 1530	014.	HEATSINK 40 INP OUTP PSM761343
36 2121	0141	SCREW DIN7985 M 3 X 6 MP+
36 7502	0142	WASHER DIN6798 A 3,2
36 6102	0143	NUT DIN934 M 3 HEXAGONAL
32 4783	015.	SWITCH MAINS 2A VISION
32 4784	016.	SWITCH PUSH SLIDE 6U
35 7011	0161	KNOB PUSH SWITCH D7,7X20 BLACK
72 1990	0161	KNOB PUSH D BLA FST70
80 1304	017.	BOARD LYON 0,5 17 X 34
31 3336	018.	SPACER L 5,3 PCB
36 2021		SCREW DIN84 M 3 X 6 MP-
36 7502		WASHER DIN6798 A 3,2



FRAME ART. N° 76 13720	PCD 1640 LP	FRAME ART. N° 76 13723	PCD 1640 S
FRAME ART. N° 76 13721	PCD 1640	FRAME ART. N° 76 13724	DCD 2240 SD
FRAME ART. N° 76 13722	DCD 2640	FRAME ART. N° 76 13727	DCD 2740

ITEM NO.	SIT.		DESCRIPTION
11 4103	C..1		CAPACITOR POMEFF 330K K 100
11 1418	C..2		CAPACITOR ELSN 22M T 350
11 4103	C..3		CAPACITOR POMEFF 330K K 100
11 1479	C..4		CAPACITOR ELPR 470M Z5 25
11 1479	C..5		CAPACITOR ELPR 470M Z5 25
11 1406	C..6		CAPACITOR ELSN 10M T 250
11 2833	C..7		CAPACITOR CE DI 4K7 S 400
11 1418	C..8		CAPACITOR ELSN 22M T 350
11 1479	C.10		CAPACITOR ELPR 470M Z5 25
11 50051	C.13	⚠	CAPACITOR PPMEPO 2K2 J 1500
11 1487	C.14		CAPACITOR ELPR 100M Z5 40
11 1487	C.15		CAPACITOR ELPR 100M Z5 40
11 4427	C.16		CAPACITOR PO FF 22K M 250
11 1491	C.17		CAPACITOR ELPR 1M Z5 63
11 39622	C.18		CAPACITOR PETPFP 10K J 400
11 2234	C.19		CAPACITOR NPO MI 22P G5 63
11 4714	C.20	⚠	CAPACITOR POSAPO 470K M 250
11 4720	C.21	⚠	CAPACITOR CESA Y 1K M 400
11 4720	C.22	⚠	CAPACITOR CESA Y 1K M 400
11 2837	C.23		CAPACITOR CE DI 10K S 400
11 2837	C.24		CAPACITOR CE DI 10K S 400
11 1654	C.25		CAPACITOR ELRA 220M T 385
11 4722	C.26	⚠	CAPACITOR CESA Y 2K2 M 400
11 4166	C.27		CAPACITOR POMEFF 220K K 400
11 47105	C.28		CAPACITOR POSAPO 100K M AC250
11 1151	C.30		CAPACITOR ELAX 2200M T 16
11 1466	C.31		CAPACITOR ELPR 100M Z5 16
11 2774	C.32		CAPACITOR CE MI 100K U5 63
11 1531	C.40		CAPACITOR ELPRMI 10M M5 35
11 4162	C.41		CAPACITOR POMEFF 100K K 400
11 1213	C.42		CAPACITOR ELAX 4M7 T 100
11 11565	C.45		CAPACITOR ELAX 10M Z 25
11 1468	C.50		CAPACITOR ELPR 470M Z5 16
11 1184	C.51		CAPACITOR ELAX 4M7 Z 40
11 41051	C.52		CAPACITOR POMEFF 560K K 100
11 4120	C.53		CAPACITOR POMEFF 10K K 250
11 5932	C.54		CAPACITOR PP RA 4K7 J5 63
11 4120	C.55		CAPACITOR POMEFF 10K K 250
11 4102	C.56		CAPACITOR POMEFF 220K K 100
11 4124	C.57		CAPACITOR POMEFF 22K K 250
11 4134	C.58		CAPACITOR POMEFF 150K K 250
11 2833	C.59		CAPACITOR CE DI 4K7 S 400
11 4140	C.60		CAPACITOR POMEFF 470K K 250
11 1190	C.61		CAPACITOR ELAX 100M T 40
11 4442	C.62		CAPACITOR PO FF 470K K 250
11 45971	C.63		CAPACITOR PP PO 1M5 K 250
11 1720	C.64	*	CAPACITOR PPMEPO 6K8 J 1500
11 1714	C.65	*	CAPACITOR PPMEPO 8K2 J 1500
11 4100	C.66		CAPACITOR POMEFF 100K K 100
11 4636	C.67		CAPACITOR HV AX 50K M 1600
11 1115	C.70		CAPACITOR ELAX 10M Z 6
11 4102	C.72		CAPACITOR POMEFF 220K K 100
11 37121	C.99		CAPACITOR POME 10K K5 100
11 3732	C100		CAPACITOR POME 470K K5 63
11 1193	C101		CAPACITOR ELAX 1000M T 40
11 3728	C102		CAPACITOR POME 220K K5 63
11 3732	C103		CAPACITOR POME 470K K5 63
11 4100	C104		CAPACITOR POMEFF 100K K 100
11 3724	C105		CAPACITOR POME 100K K5 63
11 1487	C106		CAPACITOR ELPR 100M Z5 40
11 1531	C107		CAPACITOR ELPRMI 10M M5 35
11 1548	C108		CAPACITOR ELPRMI 2M2 M5 50
11 11575	C109		CAPACITOR ELAX 22M Z 25
11 11841	C110		CAPACITOR ELAX 1M T 40
11 1147	C111		CAPACITOR ELAX 100M T 16
11 4124	C112		CAPACITOR POMEFF 22K K 250
11 4110	C113		CAPACITOR POMEFF 4M7 K 100
11 1164	C114		CAPACITOR ELAX 1000M T 25
11 3724	C115		CAPACITOR POME 100K K5 63

ITEM NO.	SIT.		DESCRIPTION
13 1637	D..1		DIODE BA158 SWITCH
13 1921	D..2		DIODE BY299 RECTIFIER
13 1924	D..4		DIODE BYW95C BYX55-6 RECTIFIER
13 1924	D..5		DIODE BYW95C BYX55-6 RECTIFIER
13 1646	D..6		DIODE 1N4007 RECTIFIER
13 1637	D..7		DIODE BA158 SWITCH
13 1637	D..8		DIODE BA158 SWITCH
13 1646	D..9		DIODE 1N4007 RECTIFIER
13 19025	D.10		DIODE BY255 RECTIFIER
13 19025	D.11		DIODE BY255 RECTIFIER
13 19025	D.12		DIODE BY255 RECTIFIER
13 19025	D.13		DIODE BY255 RECTIFIER
13 1621	D.14		DIODE 1N4148 SWITCH
13 1621	D.40		DIODE 1N4148 SWITCH
13 1637	D.41		DIODE BA158 SWITCH
13 1621	D.42		DIODE 1N4148 SWITCH
13 1637	D.50		DIODE BA158 SWITCH
13 2068	D.51	⚠	DIODE TVK-196-17 CASCADE
13 1942	D.52		DIODE BY448 RECTIFIER
13 1921	D.53		DIODE BY299 RECTIFIER
13 1644	D100		DIODE 1N4001 RECTIFIER
13 1621	D101		DIODE 1N4148 SWITCH
13 1621	D102		DIODE 1N4148 SWITCH
31 4102	F..3		FUSE 1A250 5X20 FAST
13 4010	I..1		INTEGRATED CIRCUIT 7815
13 2787	I..2		INTEGRATED CIRCUIT 4601 TDA
13 2762	I.50		INTEGRATED CIRCUIT 2595 TDA
13 2790	I100		INTEGRATED CIRCUIT 2653A TDA
77 3028	L..1		COIL CHOKE SMPOWER31
77 3028	L..2		COIL CHOKE SMPOWER31
30 2108	L..3		CORE TUBE 1,3/3,5X3
77 3309	L..4		COIL CHOKE MAINS 32
71 2604	L..5		CORE FERROX D2/5L10
77 4155	L.50		COIL LINEARITY HOR LP PCD1640
77 4137	L100		COIL BRIDGE LP PCD1640
10 6107	P..1		TRIMPOT CAMH 10K M 0W05
10 6109	P.50		TRIMPOT CAMH 47K M 0W05
10 6109	P.51		TRIMPOT CAMH 47K M 0W05
10 52096	PTC1		RESISTOR PTC 220V PHILIPS
10 6109	P100		TRIMPOT CAMH 47K M 0W05
10 6104	P101		TRIMPOT CAMH 1K M 0W05
10 6101	P102		TRIMPOT CAMH 100E M 0W05
10 6105	P103		TRIMPOT CAMH 2K2 M 0W05
10 6105	P104		TRIMPOT CAMH 2K2 M 0W05
10 6109	P105		TRIMPOT CAMH 47K M 0W05
10 6111	P106		TRIMPOT CAMH 100K M 0W05
71 6345	PC..		PC 40 FRAME SUP 2 761372
13 25095	Q..1		TRANSISTOR BU508A
13 1413	Q.40		TRANSISTOR BC557 ,BC307
13 14295	Q.50		TRANSISTOR BC549B,
13 1471	Q.51		TRANSISTOR BF458
13 25095	Q.52		TRANSISTOR BU508A
13 1418	Q100		TRANSISTOR BC559 ,BC309
13 14072	Q101		TRANSISTOR BC547A,BC237A
13 2570	Q102		TRANSISTOR BDX77,BD709
10 4415	R..1		RESISTOR WW V 15E K 11W
10 1206	R..2		RESISTOR CF 3E3 J 0W50
10 11947	R..3	⚠	RESISTOR CFF E47 K 0W40
10 1358	R..4		RESISTOR CF 68K J 1W
10 1244	R..5		RESISTOR CF 4K7 J 0W50
10 1359	R..6		RESISTOR CF 82K J 1W
10 11907	R..7	⚠	RESISTOR CFF E10 J 0W40

ITEM NO.	SIT.		DESCRIPTION			
10 1217	R..8		RESISTOR CF	27E	J	0W50
10 3254	R..9		RESISTOR MO	33K	J	1W50
10 1100	R.10		RESISTOR CF	1E	J	0W25
10 1100	R.11		RESISTOR CF	1E	J	0W25
10 1160	R.12		RESISTOR CF	100K	J	0W25
10 4268	R.13		RESISTOR WW V	33E	K	7W
10 1152	R.14		RESISTOR CF	22K	J	0W25
10 1148	R.15		RESISTOR CF	10K	J	0W25
10 1265	R.16		RESISTOR CF	270K	J	0W50
10 1139	R.17		RESISTOR CF	1K8	J	0W25
10 4407	R.18		RESISTOR WW V	3E3	K	11W
10 1267	R.19		RESISTOR CF	390K	J	0W50
10 4670	R.20		RESISTOR HV	4M7	J	0W50
10 4670	R.21		RESISTOR HV	4M7	J	0W50
10 13997	R.26		RESISTOR CFF	E10	K	1W
10 1130	R.28		RESISTOR CF	330E	J	0W25
10 1161	R.40		RESISTOR CF	120K	J	0W25
10 1131	R.41		RESISTOR CF	390E	J	0W25
10 1134	R.42		RESISTOR CF	680E	J	0W25
10 1148	R.43		RESISTOR CF	10K	J	0W25
10 1144	R.44		RESISTOR CF	4K7	J	0W25
10 1150	R.45		RESISTOR CF	15K	J	0W25
10 1150	R.46		RESISTOR CF	15K	J	0W25
10 1163	R.47		RESISTOR CF	180K	J	0W25
10 1144	R.48		RESISTOR CF	4K7	J	0W25
10 1121	R.50		RESISTOR CF	56E	J	0W25
10 1134	R.51		RESISTOR CF	680E	J	0W25
10 1144	R.52		RESISTOR CF	4K7	J	0W25
10 1135	R.53		RESISTOR CF	820E	J	0W25
10 1160	R.54		RESISTOR CF	100K	J	0W25
10 1161	R.55		RESISTOR CF	120K	J	0W25
10 1149	R.56		RESISTOR CF	12K	J	0W25
10 1161	R.57		RESISTOR CF	120K	J	0W25
10 1136	R.58		RESISTOR CF	1K	J	0W25
10 4656	R.59		RESISTOR HV	1M2	J	0W50
10 1136	R.60		RESISTOR CF	1K	J	0W25
10 1132	R.61		RESISTOR CF	470E	J	0W25
10 4170	R.62		RESISTOR WW V	1K	K	4W
10 4245	R.63		RESISTOR WW V	2K7	K	7W
10 4172	R.64		RESISTOR WW V	1E8	K	4W
10 1120	R.65		RESISTOR CF	47E	J	0W25
10 14675	R.66	*	RESISTOR MF	390K	J	1W50
10 14675	R.67	*	RESISTOR MF	390K	J	1W50
10 1134	R.68		RESISTOR CF	680E	J	0W25
10 4169	R.69		RESISTOR WW V	1K5	K	4W
10 1124	R.70		RESISTOR CF	100E	J	0W25
10 1164	R.72		RESISTOR CF	220K	J	0W25
10 1164	R.73		RESISTOR CF	220K	J	0W25
10 1136	R.74		RESISTOR CF	1K	J	0W25
10 1124	R.75		RESISTOR CF	100E	J	0W25
10 1112	R.76		RESISTOR CF	10E	J	0W25
10 1168	R.91		RESISTOR CF	470K	J	0W25
10 1135	R.92		RESISTOR CF	820E	J	0W25
10 1129	R.93		RESISTOR CF	270E	J	0W25
10 1136	R.94		RESISTOR CF	1K	J	0W25
10 1208	R.95		RESISTOR CF	4E7	J	0W50
10 1142	R.96		RESISTOR CF	3K3	J	0W25
10 1133	R.97		RESISTOR CF	560E	J	0W25
10 1136	R.98		RESISTOR CF	1K	J	0W25
10 1144	R100		RESISTOR CF	4K7	J	0W25
10 1168	R101		RESISTOR CF	470K	J	0W25
10 1309	R102		RESISTOR CF	5E6	J	1W
10 1159	R103		RESISTOR CF	82K	J	0W25
10 1149	R104		RESISTOR CF	12K	J	0W25
10 1162	R105		RESISTOR CF	150K	J	0W25
10 1156	R106		RESISTOR CF	47K	J	0W25
10 1156	R107		RESISTOR CF	47K	J	0W25
10 1142	R108		RESISTOR CF	3K3	J	0W25
10 1160	R109		RESISTOR CF	100K	J	0W25
10 1151	R110		RESISTOR CF	18K	J	0W25
10 1140	R111		RESISTOR CF	2K2	J	0W25
10 1151	R112		RESISTOR CF	18K	J	0W25
10 1131	R113		RESISTOR CF	390E	J	0W25
10 1126	R115		RESISTOR CF	150E	J	0W25
10 1102	R116		RESISTOR CF	1E5	J	0W25
10 1140	R117		RESISTOR CF	2K2	J	0W25
10 1154	R118		RESISTOR CF	33K	J	0W25
10 1134	R119		RESISTOR CF	680E	J	0W25
10 1156	R120		RESISTOR CF	47K	J	0W25
10 1159	R121		RESISTOR CF	82K	J	0W25
10 1136	R122		RESISTOR CF	1K	J	0W25
10 1163	R123		RESISTOR CF	180K	J	0W25
10 1140	R125		RESISTOR CF	2K2	J	0W25
10 4170	R126		RESISTOR WW V	1K	K	4W
10 1103	R127		RESISTOR CF	1E8	J	0W25
10 1124			RESISTOR CF	100E	J	0W25
77 4145	T..1		TRANSFORMER SMP	LP PCD1640		
77 3360	T.50		TRANSFORMER DRIVER HOR	34		
77 4180	T.51		TRANSFORMER EHT	LP PCD1640		
13 1749	Z.40		DIODE ZENER 18V 0W5 C			
76 11858			UN.SCAN+SHIFT PCD1640			
76 1375			UN.CRT SOC PCD1640 LP			
31 3577	001.		CONNECTOR MT	MOBTE P 2 10		
31 5310	002.		CONNECTOR TAB	MOBTE P 1 2,8		
31 3454	003.		CONNECTOR TAB	MOBTE P 1 4,8		
31 3578	004.		CONNECTOR MT	MOBTE P 4 7,5		
31 32651	005.		RESISTOR WW V HOLDER H20			
31 3224	006.		RESISTOR WW V HOLDER H25			
31 4501	007.		FUSE	5X20	CLIPS	
31 3249	009.		CONNECTOR IC	FOBTE P18 7,5		
31 3599	010.		CONNECTOR EDGE	FOBTE P20 5		
36 2122	012.		SCREW DIN7985 M 3 X 8	MP+		
36 6102	013.		NUT DIN934 M 3	HEXAGONAL		
80 0552	015.		FRAME LATH L TCT1640			
80 0553	016.		FRAME LATH R TCT1640			
72 1664	017.		FIXSTRIP FRAME 40			
80 0551	018.		HEATSINK TCT FRAME DOWN			
36 7454	019.		RIVET AL FE TAP/D/BS44	D3,2		
80 0182	020.		HEATSINK 40 SMP			
80 01881	021.		ISOLSHEET 15X24 40			
80 01882	022.		ISOLSHEET 20X24 40			
13 3058	023.		TRANSISTOR FIX CLIPS	TO-220		
13 3032	024.		TRANSISTOR FIX CLIPS	TO-126		
13 3039	0241		SPACER L 8	D 4	D1,2 CER	
13 3062	025.		TRANSISTOR FIX CLIPS	SOT-93		
80 0218	026.		FIX MAINS CORD 40			
36 7454	0261		RIVET AL FE TAP/D/BS44	D3,2		
59 0217	027.		LABEL EHT ARROW			
30 2102			CORE TUBE 1,3/4,95X40,5			
36 2022			SCREW DIN84	M 3 X 8	MP-	
36 6102			NUT DIN934 M 3	HEXAGONAL		
36 7502			WASHER DIN6798 A 3,2			
80 1205			GUIDING SCAN REDUCTION PCD1640			
80 1206			FIXING SCAN REDUCTION			

ITEM NO.	SIT.		DESCRIPTION
11 4103	C..1		CAPACITOR POMEFF 330K K 100
11 1418	C..2		CAPACITOR ELSN 22M T 350
11 4103	C..3		CAPACITOR POMEFF 330K K 100
11 1479	C..4		CAPACITOR ELPR 470M Z5 25
11 1479	C..5		CAPACITOR ELPR 470M Z5 25
11 1406	C..6		CAPACITOR ELSN 10M T 250
11 2833	C..7		CAPACITOR CE DI 4K7 S 400
11 1418	C..8		CAPACITOR ELSN 22M T 350
11 1479	C..9		CAPACITOR ELPR 470M Z5 25
11 1479	C.10		CAPACITOR ELPR 470M Z5 25
11 50051	C.13	⚠	CAPACITOR PPMEPO 2K2 J 1500
11 1487	C.14		CAPACITOR ELPR 100M Z5 40
11 1487	C.15		CAPACITOR ELPR 100M Z5 40
11 4427	C.16		CAPACITOR PO FF 22K M 250
11 1491	C.17		CAPACITOR ELPR 1M Z5 63
11 39622	C.18		CAPACITOR PETPFP 10K J 400
11 2234	C.19		CAPACITOR NPO MI 22P G5 63
11 4714	C.20	⚠	CAPACITOR POSAPO 470K M 250
11 4722	C.21		CAPACITOR CESA Y 2K2 M 400
11 4722	C.22		CAPACITOR CESA Y 2K2 M 400
11 2837	C.23		CAPACITOR CE DI 10K S 400
11 2837	C.24		CAPACITOR CE DI 10K S 400
11 1654	C.25		CAPACITOR ELRA 220M T 385
11 4722	C.26	⚠	CAPACITOR CESA Y 2K2 M 400
11 4166	C.27		CAPACITOR POMEFF 220K K 400
11 47105	C.28		CAPACITOR POSAPO 100K M AC250
11 1151	C.30		CAPACITOR ELAX 2200M T 16
11 1466	C.31		CAPACITOR ELPR 100M Z5 16
11 2774	C.32		CAPACITOR CE MI 100K U5 63
11 1531	C.40		CAPACITOR ELPRMI 10M M5 35
11 4162	C.41		CAPACITOR POMEFF 100K K 400
11 1213	C.42		CAPACITOR ELAX 4M7 T 100
11 11565	C.45		CAPACITOR ELAX 10M Z 25
11 1468	C.50		CAPACITOR ELPR 470M Z5 16
11 1184	C.51		CAPACITOR ELAX 4M7 Z 40
11 41051	C.52		CAPACITOR POMEFF 560K K 100
11 4120	C.53		CAPACITOR POMEFF 10K K 250
11 5932	C.54		CAPACITOR PP RA 4K7 J5 63
11 4120	C.55		CAPACITOR POMEFF 10K K 250
11 4102	C.56		CAPACITOR POMEFF 220K K 100
11 4124	C.57		CAPACITOR POMEFF 22K K 250
11 4134	C.58		CAPACITOR POMEFF 150K K 250
11 2833	C.59		CAPACITOR CE DI 4K7 S 400
11 4140	C.60		CAPACITOR POMEFF 470K K 250
11 1190	C.61		CAPACITOR ELAX 100M T 40
11 4442	C.62		CAPACITOR PO FF 470K K 250
11 4590	C.63		CAPACITOR PP PO 330K K 250
11 1773	C.64	*	CAPACITOR PPMEPO 4K7 J 1500
11 17851	C.65	*	CAPACITOR PPMEPO 15K J 1500
11 4100	C.66		CAPACITOR POMEFF 100K K 100
11 4636	C.67		CAPACITOR HV AX 50K M 1600
11 1115	C.70		CAPACITOR ELAX 10M Z 6
11 4102	C.72		CAPACITOR POMEFF 220K K 100
11 37121	C.99		CAPACITOR POME 10K K5 100
11 3732	C100		CAPACITOR POME 470K K5 63
11 1193	C101		CAPACITOR ELAX 1000M T 40
11 3728	C102		CAPACITOR POME 220K K5 63
11 3732	C103		CAPACITOR POME 470K K5 63
11 4100	C104		CAPACITOR POMEFF 100K K 100
11 3724	C105		CAPACITOR POME 100K K5 63
11 1487	C106		CAPACITOR ELPR 100M Z5 40
11 1531	C107		CAPACITOR ELPRMI 10M M5 35
11 1548	C108		CAPACITOR ELPRMI 2M2 M5 50
11 11575	C109		CAPACITOR ELAX 22M Z 25
11 11841	C110		CAPACITOR ELAX 1M T 40
11 1147	C111		CAPACITOR ELAX 100M T 16
11 4124	C112		CAPACITOR POMEFF 22K K 250
11 4110	C113		CAPACITOR POMEFF 4M7 K 100
11 1164	C114		CAPACITOR ELAX 1000M T 25
11 3724	C115		CAPACITOR POME 100K K5 63

ITEM NO.	SIT.		DESCRIPTION
11 4602	C150		CAPACITOR POHVPO 47K M 1000
11 4162	C151		CAPACITOR POMEFF 100K K 400
13 1637	D..1		DIODE BA158 SWITCH
13 1921	D..2		DIODE BY299 RECTIFIER
13 1637	D..3		DIODE BA158 SWITCH
13 1924	D..4		DIODE BYW95C BYX55-6 RECTIFIER
13 1924	D..5		DIODE BYW95C BYX55-6 RECTIFIER
13 1646	D..6		DIODE 1N4007 RECTIFIER
13 1637	D..7		DIODE BA158 SWITCH
13 1637	D..8		DIODE BA158 SWITCH
13 1646	D..9		DIODE 1N4007 RECTIFIER
13 19025	D.10		DIODE BY255 RECTIFIER
13 19025	D.11		DIODE BY255 RECTIFIER
13 19025	D.12		DIODE BY255 RECTIFIER
13 19025	D.13		DIODE BY255 RECTIFIER
13 1621	D.14		DIODE 1N4148 SWITCH
13 1621	D.40		DIODE 1N4148 SWITCH
13 1637	D.41		DIODE BA158 SWITCH
13 1621	D.42		DIODE 1N4148 SWITCH
13 1637	D.50		DIODE BA158 SWITCH
13 2068	D.51	⚠	DIODE TVK-196-17 CASCADE
13 1942	D.52		DIODE BY448 RECTIFIER
13 1921	D.53		DIODE BY299 RECTIFIER
13 1637	D.56		DIODE BA158 SWITCH
13 1644	D100		DIODE 1N4001 RECTIFIER
13 1621	D101		DIODE 1N4148 SWITCH
13 1621	D102		DIODE 1N4148 SWITCH
31 41041	F..1		FUSE 4A 5X20 SLOW
31 41041	F..2		FUSE 4A 5X20 SLOW
31 4102	F..3		FUSE 1A250 5X20 FAST
13 4010	I..1		INTEGRATED CIRCUIT 7815
13 2787	I..2		INTEGRATED CIRCUIT 4601 TDA
13 2762	I.50		INTEGRATED CIRCUIT 2595 TDA
13 2790	I100		INTEGRATED CIRCUIT 2653A TDA
77 3028	L..1		COIL CHOKE SMPOWER31
77 3028	L..2		COIL CHOKE SMPOWER31
30 2108	L..3		CORE TUBE 1,3/3,5X3
77 3309	L..4		COIL CHOKE MAINS 32
71 2604	L..5		CORE FERROX D2/5L10
30 6403	L.50		COIL LINEARITY 4042/02 34
77 3363	L100	*	COIL BRIDGE 34GS
10 6107	P..1		TRIMPOT CAMH 10K M 0W05
10 6109	P.50		TRIMPOT CAMH 47K M 0W05
10 6109	P.51		TRIMPOT CAMH 47K M 0W05
10 52096	PTC1		RESISTOR PTC 220V PHILIPS
10 6109	P100		TRIMPOT CAMH 47K M 0W05
10 6104	P101		TRIMPOT CAMH 1K M 0W05
10 6101	P102		TRIMPOT CAMH 100E M 0W05
10 6105	P103		TRIMPOT CAMH 2K2 M 0W05
10 6105	P104		TRIMPOT CAMH 2K2 M 0W05
10 6109	P105		TRIMPOT CAMH 47K M 0W05
10 6111	P106		TRIMPOT CAMH 100K M 0W05
10 6315	P150		TRIMPOT CASH 2M2 M 0W15
71 6345	PC..		PC 40 FRAME SUP 2 761372
13 25095	Q..1		TRANSISTOR BU508A
13 1413	Q.40		TRANSISTOR BC557 ,BC307
13 14295	Q.50		TRANSISTOR BC549B,
13 1471	Q.51		TRANSISTOR BF458
13 25095	Q.52		TRANSISTOR BU508A
13 1418	Q100		TRANSISTOR BC559 ,BC309
13 14072	Q101		TRANSISTOR BC547A,BC237A
13 2570	Q102		TRANSISTOR BDX77,BD709

SUPPLY + DEFLECTION BOARD 76 13721

ITEM NO.	SIT.		DESCRIPTION			
10 4415	R..1		RESISTOR WW V	15E	K	11W
10 1206	R..2		RESISTOR CF	3E3	J	0W50
10 11947	R..3	⚠	RESISTOR CFF	E47	K	0W40
10 1358	R..4		RESISTOR CF	68K	J	1W
10 1244	R..5		RESISTOR CF	4K7	J	0W50
10 1359	R..6		RESISTOR CF	82K	J	1W
10 11907	R..7	⚠	RESISTOR CFF	E10	J	0W40
10 1217	R..8		RESISTOR CF	27E	J	0W50
10 3254	R..9		RESISTOR MO	33K	J	1W50
10 1100	R.10		RESISTOR CF	1E	J	0W25
10 1100	R.11		RESISTOR CF	1E	J	0W25
10 1160	R.12		RESISTOR CF	100K	J	0W25
10 4268	R.13		RESISTOR WW V	33E	K	7W
10 1152	R.14		RESISTOR CF	22K	J	0W25
10 1148	R.15		RESISTOR CF	10K	J	0W25
10 1265	R.16		RESISTOR CF	270K	J	0W50
10 1139	R.17		RESISTOR CF	1K8	J	0W25
10 4407	R.18		RESISTOR WW V	3E3	K	11W
10 1267	R.19		RESISTOR CF	390K	J	0W50
10 4670	R.20		RESISTOR HV	4M7	J	0W50
10 4670	R.21		RESISTOR HV	4M7	J	0W50
10 1155	R.22		RESISTOR CF	39K	J	0W25
10 1157	R.23		RESISTOR CF	56K	J	0W25
10 1143	R.24		RESISTOR CF	3K9	J	0W25
10 1253	R.25		RESISTOR CF	27K	J	0W50
10 13997	R.26		RESISTOR CFF	E10	K	1W
10 11907	R.27	⚠	RESISTOR CFF	E10	J	0W40
10 1136	R.41		RESISTOR CF	1K	J	0W25
10 1136	R.42		RESISTOR CF	1K	J	0W25
10 1148	R.43		RESISTOR CF	10K	J	0W25
10 1144	R.44		RESISTOR CF	4K7	J	0W25
10 1150	R.45		RESISTOR CF	15K	J	0W25
10 1150	R.46		RESISTOR CF	15K	J	0W25
10 1162	R.47		RESISTOR CF	150K	J	0W25
10 1145	R.48		RESISTOR CF	5K6	J	0W25
10 1121	R.50		RESISTOR CF	56E	J	0W25
10 1134	R.51		RESISTOR CF	680E	J	0W25
10 1144	R.52		RESISTOR CF	4K7	J	0W25
10 1135	R.53		RESISTOR CF	820E	J	0W25
10 1160	R.54		RESISTOR CF	100K	J	0W25
10 1161	R.55		RESISTOR CF	120K	J	0W25
10 1149	R.56		RESISTOR CF	12K	J	0W25
10 1161	R.57		RESISTOR CF	120K	J	0W25
10 1136	R.58		RESISTOR CF	1K	J	0W25
10 4656	R.59		RESISTOR HV	1M2	J	0W50
10 1136	R.60		RESISTOR CF	1K	J	0W25
10 1132	R.61		RESISTOR CF	470E	J	0W25
10 4170	R.62		RESISTOR WW V	1K	K	4W
10 4245	R.63		RESISTOR WW V	2K7	K	7W
10 4172	R.64		RESISTOR WW V	1E8	K	4W
10 1120	R.65		RESISTOR CF	47E	J	0W25
10 14675	R.66	*	RESISTOR MF	390K	J	1W50

ITEM NO.	SIT.		DESCRIPTION			
10 1168	R101		RESISTOR CF	470K	J	0W25
10 1309	R102		RESISTOR CF	5E6	J	1W
10 1159	R103		RESISTOR CF	82K	J	0W25
10 1149	R104		RESISTOR CF	12K	J	0W25
10 1164	R105		RESISTOR CF	220K	J	0W25
10 1156	R106		RESISTOR CF	47K	J	0W25
10 1156	R107		RESISTOR CF	47K	J	0W25
10 1142	R108		RESISTOR CF	3K3	J	0W25
10 1160	R109		RESISTOR CF	100K	J	0W25
10 1151	R110		RESISTOR CF	18K	J	0W25
10 1140	R111		RESISTOR CF	2K2	J	0W25
10 1151	R112		RESISTOR CF	18K	J	0W25
10 1131	R113		RESISTOR CF	390E	J	0W25
10 1126	R115		RESISTOR CF	150E	J	0W25
10 1102	R116		RESISTOR CF	1E5	J	0W25
10 1140	R117		RESISTOR CF	2K2	J	0W25
10 1156	R118		RESISTOR CF	47K	J	0W25
10 1134	R119		RESISTOR CF	680E	J	0W25
10 1156	R120		RESISTOR CF	47K	J	0W25
10 1159	R121		RESISTOR CF	82K	J	0W25
10 1136	R122		RESISTOR CF	1K	J	0W25
10 1165	R123		RESISTOR CF	270K	J	0W25
10 1140	R125		RESISTOR CF	2K2	J	0W25
10 4170	R126		RESISTOR WW V	1K	K	4W
10 1103	R127		RESISTOR CF	1E8	J	0W25
10 4656	R150		RESISTOR HV	1M2	J	0W50
10 41748	R151		RESISTOR WWFV	4E7	K	3W
10 4664	R152		RESISTOR HV	2M7	J	0W50
10 12484	R154		RESISTOR CF	10K	J	0W50
10 2038	R155		RESISTOR CC	1K5	K	0W50
10 12364	R156		RESISTOR CF	1K	J	0W50
10 12364	R157		RESISTOR CF	1K	J	0W50
10 1262	R158		RESISTOR CF	150K	J	0W50
10 12364	R159		RESISTOR CF	1K	J	0W50
10 1124			RESISTOR CF	100E	J	0W25

77 4117	T..1	TRANSFORMER SMP TCT1640
77 3360	T.50	TRANSFORMER DRIVER HOR 34
77 4124	T.51	TRANSFORMER EHT DCD1640
13 1749	Z.40	DIODE ZENER 18V 0W5 C
76 11858		UN.SCAN+SHIFT PCD1640
76 12937		UN.I SENSE ABL40 PCD QUAD HR
31 3577	001.	CONNECTOR MT MOBTE P 2 10
31 5310	002.	CONNECTOR TAB MOBTE P 1 2,8
31 3454	003.	CONNECTOR TAB MOBTE P 1 4,8
31 3578	004.	CONNECTOR MT MOBTE P 4 7,5
31 32651	005.	RESISTOR WW V HOLDER H20
31 3224	006.	RESISTOR WW V HOLDER H25
31 4501	007.	FUSE 5X20 CLIPS
31 1024	008	TUBE SOCKET SG 11-13KV

ITEM NO.	SIT.	DESCRIPTION		ITEM NO.	SIT.	DESCRIPTION
36 7454	0261	RIVET AL FE TAP/D/BS44	D3,2	36 6102		NUT DIN934 M 3 HEXAGONAL
59 0217	027.	LABEL EHT ARROW		36 7502		WASHER DIN6798 A 3,2
30 2102		CORE TUBE 1,3/4,95X40,5		80 1205		GUIDING SCAN REDUCTION PCD1640
36 2022		SCREW DIN84 M 3 X 8	MP-	80 1206		FIXING SCAN REDUCTION

ITEM NO.	SIT.	DESCRIPTION
13 1646	D..1	DIODE 1N4007 RECTIFIER
13 1646	D..2	DIODE 1N4007 RECTIFIER
13 1621	D..3	DIODE 1N4148 SWITCH
10 6109	P..2	TRIMPOT CAMH 47K M 0W05
10 6114	P..3	TRIMPOT CAMH 1M M 0W05
10 6511	P..4	TRIMPOT WW HK 100E K 2W
71 5864	PC..	PC 40 SCANN+SHIFT 761185
13 14295	Q..1	TRANSISTOR BC549B,
10 1160	R..2	RESISTOR CF 100K J 0W25
10 1144	R..3	RESISTOR CF 4K7 J 0W25
10 1168	R..4	RESISTOR CF 470K J 0W25
77 4138	T..1	COIL SHIFT HOR PCD1640
31 5310	001.	CONNECTOR TAB MOBTE P 1 2,8
34 8019	002.	WIRE TIE L100

ITEM NO.	SIT.		DESCRIPTION
11 4103	C..1		CAPACITOR POMEFF 330K K 100
11 1418	C..2		CAPACITOR ELSN 22M T 350
11 4103	C..3		CAPACITOR POMEFF 330K K 100
11 1479	C..4		CAPACITOR ELPR 470M Z5 25
11 1479	C..5		CAPACITOR ELPR 470M Z5 25
11 1406	C..6		CAPACITOR ELSN 10M T 250
11 2833	C..7		CAPACITOR CE DI 4K7 S 400
11 1418	C..8		CAPACITOR ELSN 22M T 350
11 1479	C.10		CAPACITOR ELPR 470M Z5 25
11 50051	C.13	⚠	CAPACITOR PPMEPO 2K2 J 1500
11 1487	C.14		CAPACITOR ELPR 100M Z5 40
11 1487	C.15		CAPACITOR ELPR 100M Z5 40
11 4427	C.16		CAPACITOR PO FF 22K M 250
11 1491	C.17		CAPACITOR ELPR 1M Z5 63
11 39622	C.18		CAPACITOR PETPFP 10K J 400
11 2234	C.19		CAPACITOR NPO MI 22P G5 63
11 4714	C.20	⚠	CAPACITOR POSAPO 470K M 250
11 4722	C.21		CAPACITOR CESA Y 2K2 M 400
11 4722	C.22		CAPACITOR CESA Y 2K2 M 400
11 2837	C.23		CAPACITOR CE DI 10K S 400
11 2837	C.24		CAPACITOR CE DI 10K S 400
11 1654	C.25		CAPACITOR ELRA 220M T 385
11 4722	C.26	⚠	CAPACITOR CESA Y 2K2 M 400
11 4166	C.27		CAPACITOR POMEFF 220K K 400
11 47105	C.28		CAPACITOR POSAPO 100K M AC250
11 1151	C.30		CAPACITOR ELAX 2200M T 16
11 1466	C.31		CAPACITOR ELPR 100M Z5 16
11 2774	C.32		CAPACITOR CE MI 100K U5 63
11 1531	C.40		CAPACITOR ELPRMI 10M M5 35
11 4162	C.41		CAPACITOR POMEFF 100K K 400
11 1213	C.42		CAPACITOR ELAX 4M7 T 100
11 1468	C.50		CAPACITOR ELPR 470M Z5 16
11 1184	C.51		CAPACITOR ELAX 4M7 Z 40
11 41051	C.52		CAPACITOR POMEFF 560K K 100
11 4120	C.53		CAPACITOR POMEFF 10K K 250
11 5932	C.54		CAPACITOR PP RA 4K7 J5 63
11 4120	C.55		CAPACITOR POMEFF 10K K 250
11 4102	C.56		CAPACITOR POMEFF 220K K 100
11 4124	C.57		CAPACITOR POMEFF 22K K 250
11 4134	C.58		CAPACITOR POMEFF 150K K 250
11 2833	C.59		CAPACITOR CE DI 4K7 S 400
11 4140	C.60		CAPACITOR POMEFF 470K K 250
11 1190	C.61		CAPACITOR ELAX 100M T 40
11 4442	C.62		CAPACITOR PO FF 470K K 250
11 4590	C.63		CAPACITOR PP PO 330K K 250
11 1780	C.64	*	CAPACITOR PPMEPO 9K1 J 1500
11 17891	C.65	*	CAPACITOR PPMEPO 22K J 750
11 4100	C.66		CAPACITOR POMEFF 100K K 100
11 4636	C.67		CAPACITOR HV AX 50K M 1600
11 1115	C.70		CAPACITOR ELAX 10M Z 6
11 4102	C.72		CAPACITOR POMEFF 220K K 100
11 3732	C100		CAPACITOR POME 470K K5 63
11 1193	C101		CAPACITOR ELAX 1000M T 40
11 3728	C102		CAPACITOR POME 220K K5 63
11 3732	C103		CAPACITOR POME 470K K5 63
11 4100	C104		CAPACITOR POMEFF 100K K 100
11 3724	C105		CAPACITOR POME 100K K5 63
11 1487	C106		CAPACITOR ELPR 100M Z5 40
11 1531	C107		CAPACITOR ELPRMI 10M M5 35
11 1531	C108		CAPACITOR ELPRMI 10M M5 35
11 11575	C109		CAPACITOR ELAX 22M Z 25
11 11841	C110		CAPACITOR ELAX 1M T 40
11 1147	C111		CAPACITOR ELAX 100M T 16
11 4124	C112		CAPACITOR POMEFF 22K K 250
11 4110	C113		CAPACITOR POMEFF 4M7 K 100
11 1164	C114		CAPACITOR ELAX 1000M T 25
11 3724	C115		CAPACITOR POME 100K K5 63
11 4602	C150		CAPACITOR POHVPO 47K M 1000
11 4162	C151		CAPACITOR POMEFF 100K K 400

ITEM NO.	SIT.		DESCRIPTION
13 1637	D..1		DIODE BA158 SWITCH
13 1921	D..2		DIODE BY299 RECTIFIER
13 1924	D..4		DIODE BYW95C BYX55-6 RECTIFIER
13 1924	D..5		DIODE BYW95C BYX55-6 RECTIFIER
13 1646	D..6		DIODE 1N4007 RECTIFIER
13 1637	D..7		DIODE BA158 SWITCH
13 1637	D..8		DIODE BA158 SWITCH
13 1646	D..9		DIODE 1N4007 RECTIFIER
13 19025	D.10		DIODE BY255 RECTIFIER
13 19025	D.11		DIODE BY255 RECTIFIER
13 19025	D.12		DIODE BY255 RECTIFIER
13 19025	D.13		DIODE BY255 RECTIFIER
13 1621	D.14		DIODE 1N4148 SWITCH
13 1621	D.40		DIODE 1N4148 SWITCH
13 1637	D.41		DIODE BA158 SWITCH
13 1621	D.42		DIODE 1N4148 SWITCH
13 1621	D.45		DIODE 1N4148 SWITCH
13 1637	D.50		DIODE BA158 SWITCH
13 2068	D.51	⚠	DIODE TVK-196-17 CASCADE
13 1942	D.52		DIODE BY448 RECTIFIER
13 1921	D.53		DIODE BY299 RECTIFIER
13 1921	D.54		DIODE BY299 RECTIFIER
13 1921	D.55		DIODE BY299 RECTIFIER
13 1637	D.56		DIODE BA158 SWITCH
13 1644	D100		DIODE 1N4001 RECTIFIER
13 1621	D101		DIODE 1N4148 SWITCH
13 1621	D102		DIODE 1N4148 SWITCH
31 41041	F..1		FUSE 4A 5X20 SLOW
31 41041	F..2		FUSE 4A 5X20 SLOW
31 4102	F..3		FUSE 1A250 5X20 FAST
13 4010	I..1		INTEGRATED CIRCUIT 7815
13 2787	I..2		INTEGRATED CIRCUIT 4601 TDA
13 2762	I.50		INTEGRATED CIRCUIT 2595 TDA
13 2790	I100		INTEGRATED CIRCUIT 2653A TDA
77 3028	L..1		COIL CHOKE SMPOWER31
77 3028	L..2		COIL CHOKE SMPOWER31
30 2108	L..3		CORE TUBE 1,3/3,5X3
77 3309	L..4		COIL CHOKE MAINS 32
71 2604	L..5		CORE FERROX D2/5L10
30 6407	L.50		COIL LINEARITY 4042/08A 32
77 3363	L100	*	COIL BRIDGE 34GS
10 6107	P..1		TRIMPOT CAMH 10K M 0W05
10 6109	P.50		TRIMPOT CAMH 47K M 0W05
10 6109	P.51		TRIMPOT CAMH 47K M 0W05
10 52096	PTC1		RESISTOR PTC 220V PHILIPS
10 6109	P100		TRIMPOT CAMH 47K M 0W05
10 6104	P101		TRIMPOT CAMH 1K M 0W05
10 6101	P102		TRIMPOT CAMH 100E M 0W05
10 6105	P103		TRIMPOT CAMH 2K2 M 0W05
10 6105	P104		TRIMPOT CAMH 2K2 M 0W05
10 6109	P105		TRIMPOT CAMH 47K M 0W05
10 6111	P106		TRIMPOT CAMH 100K M 0W05
10 6215	P150		TRIMPOT CASV 2M2 M 0W15
71 6345	PC..		PC 40 FRAME SUP 2 761372
13 25095	Q..1		TRANSISTOR BU508A
13 1413	Q.40		TRANSISTOR BC557 ,BC307
13 14295	Q.50		TRANSISTOR BC549B,
13 1471	Q.51		TRANSISTOR BF458
13 25095	Q.52		TRANSISTOR BU508A
13 1418	Q100		TRANSISTOR BC559 ,BC309
13 14072	Q101		TRANSISTOR BC547A,BC237A
13 2570	Q102		TRANSISTOR BDX77,BD709

ITEM NO.	SIT.		DESCRIPTION
10 4415	R..1		RESISTOR WW V 15E K 11W
10 1206	R..2		RESISTOR CF 3E3 J 0W50
10 11947	R..3	⚠	RESISTOR CFF E47 K 0W40
10 1358	R..4		RESISTOR CF 68K J 1W
10 1244	R..5		RESISTOR CF 4K7 J 0W50
10 1359	R..6		RESISTOR CF 82K J 1W
10 11907	R..7	⚠	RESISTOR CFF E10 J 0W40
10 1217	R..8		RESISTOR CF 27E J 0W50
10 3254	R..9		RESISTOR MO 33K J 1W50
10 1100	R.10		RESISTOR CF 1E J 0W25
10 1100	R.11		RESISTOR CF 1E J 0W25
10 1160	R.12		RESISTOR CF 100K J 0W25
10 4268	R.13		RESISTOR WW V 33E K 7W
10 1152	R.14		RESISTOR CF 22K J 0W25
10 1148	R.15		RESISTOR CF 10K J 0W25
10 1265	R.16		RESISTOR CF 270K J 0W50
10 1139	R.17		RESISTOR CF 1K8 J 0W25
10 4407	R.18		RESISTOR WW V 3E3 K 11W
10 1267	R.19		RESISTOR CF 390K J 0W50
10 4670	R.20		RESISTOR HV 4M7 J 0W50
10 4670	R.21		RESISTOR HV 4M7 J 0W50
10 1155	R.22		RESISTOR CF 39K J 0W25
10 1157	R.23		RESISTOR CF 56K J 0W25
10 1143	R.24		RESISTOR CF 3K9 J 0W25
10 1253	R.25		RESISTOR CF 27K J 0W50
10 13997	R.26		RESISTOR CFF E10 K 1W
10 1130	R.28		RESISTOR CF 330E J 0W25
10 1136	R.41		RESISTOR CF 1K J 0W25
10 1131	R.42		RESISTOR CF 390E J 0W25
10 1148	R.43		RESISTOR CF 10K J 0W25
10 1144	R.44		RESISTOR CF 4K7 J 0W25
10 1162	R.47		RESISTOR CF 150K J 0W25
10 1145	R.48		RESISTOR CF 5K6 J 0W25
10 1121	R.50		RESISTOR CF 56E J 0W25
10 1134	R.51		RESISTOR CF 680E J 0W25
10 1144	R.52		RESISTOR CF 4K7 J 0W25
10 1135	R.53		RESISTOR CF 820E J 0W25
10 1160	R.54		RESISTOR CF 100K J 0W25
10 1161	R.55		RESISTOR CF 120K J 0W25
10 1149	R.56		RESISTOR CF 12K J 0W25
10 1161	R.57		RESISTOR CF 120K J 0W25
10 1136	R.58		RESISTOR CF 1K J 0W25
10 4656	R.59		RESISTOR HV 1M2 J 0W50
10 1136	R.60		RESISTOR CF 1K J 0W25
10 1132	R.61		RESISTOR CF 470E J 0W25
10 4170	R.62		RESISTOR WW V 1K K 4W
10 4245	R.63		RESISTOR WW V 2K7 K 7W
10 4172	R.64		RESISTOR WW V 1E8 K 4W
10 1120	R.65		RESISTOR CF 47E J 0W25
10 14675	R.66	*	RESISTOR MF 390K J 1W50
10 14675	R.67	*	RESISTOR MF 390K J 1W50
10 1131	R.68		RESISTOR CF 390E J 0W25
10 4169	R.69		RESISTOR WW V 1K5 K 4W
10 1124	R.70		RESISTOR CF 100E J 0W25
10 1164	R.72		RESISTOR CF 220K J 0W25
10 1164	R.73		RESISTOR CF 220K J 0W25
10 1136	R.74		RESISTOR CF 1K J 0W25
10 1124	R.75		RESISTOR CF 100E J 0W25
10 1112	R.76		RESISTOR CF 10E J 0W25
10 1168	R.91		RESISTOR CF 470K J 0W25
10 1135	R.92		RESISTOR CF 820E J 0W25
10 1136	R.94		RESISTOR CF 1K J 0W25
10 1208	R.95		RESISTOR CF 4E7 J 0W50
10 1142	R.96		RESISTOR CF 3K3 J 0W25
10 1133	R.97		RESISTOR CF 560E J 0W25
10 1136	R.98		RESISTOR CF 1K J 0W25
10 1144	R100		RESISTOR CF 4K7 J 0W25
10 1168	R101		RESISTOR CF 470K J 0W25
10 1309	R102		RESISTOR CF 5E6 J 1W
10 1159	R103		RESISTOR CF 82K J 0W25
10 1149	R104		RESISTOR CF 12K J 0W25
10 1163	R105		RESISTOR CF 180K J 0W25
10 1156	R106		RESISTOR CF 47K J 0W25
10 1156	R107		RESISTOR CF 47K J 0W25
10 1142	R108		RESISTOR CF 3K3 J 0W25
10 1160	R109		RESISTOR CF 100K J 0W25
10 1151	R110		RESISTOR CF 18K J 0W25
10 1136	R111		RESISTOR CF 1K J 0W25
10 1151	R112		RESISTOR CF 18K J 0W25
10 1131	R113		RESISTOR CF 390E J 0W25
10 1232	R114		RESISTOR CF 470E J 0W50
10 1127	R115		RESISTOR CF 180E J 0W25
10 1100	R116		RESISTOR CF 1E J 0W25
10 1140	R117		RESISTOR CF 2K2 J 0W25
10 1156	R118		RESISTOR CF 47K J 0W25
10 1134	R119		RESISTOR CF 680E J 0W25
10 1156	R120		RESISTOR CF 47K J 0W25
10 1159	R121		RESISTOR CF 82K J 0W25
10 1136	R122		RESISTOR CF 1K J 0W25
10 1165	R123		RESISTOR CF 270K J 0W25
10 1140	R125		RESISTOR CF 2K2 J 0W25
10 4170	R126		RESISTOR WW V 1K K 4W
10 1100	R127		RESISTOR CF 1E J 0W25
10 1269	R150		RESISTOR CF 560K J 0W50
10 41728	R151		RESISTOR WWFV 1E8 K 4W
10 4664	R152		RESISTOR HV 2M7 J 0W50
10 12484	R154		RESISTOR CF 10K J 0W50
10 2038	R155		RESISTOR CC 1K5 K 0W50
10 12364	R156		RESISTOR CF 1K J 0W50
10 12364	R157		RESISTOR CF 1K J 0W50
10 1262	R158		RESISTOR CF 150K J 0W50
10 12364	R159		RESISTOR CF 1K J 0W50
10 1124			RESISTOR CF 100E J 0W25
77 41106	T..1	⚠	TRANSFORMER SMP 67 CEBEC 40
77 3360	T.50		TRANSFORMER DRIVER HOR 34
77 41227	T.51		TRANSFORMER EHT MCD2640
13 1749	Z.40		DIODE ZENER 18V 0W5 C
76 1293			UN.I SENSE ABL40
31 3577	001.		CONNECTOR MT MOBTE P 2 10
31 5310	002.		CONNECTOR TAB MOBTE P 1 2,8
31 3454	003.		CONNECTOR TAB MOBTE P 1 4,8
31 3578	004.		CONNECTOR MT MOBTE P 4 7,5
31 32651	005.		RESISTOR WW V HOLDER H20
31 3224	006.		RESISTOR WW V HOLDER H25
31 4501	007.		FUSE 5X20 CLIPS
31 1028	008.		TUBE SOCKET SG 9-11KV
31 3249	009.		CONNECTOR IC FOBTE P18 7,5
31 3599	010.		CONNECTOR EDGE FOBTE P20 5
36 2122	012.		SCREW DIN7985 M 3 X 8 MP+
36 6102	013.		NUT DIN934 M 3 HEXAGONAL
80 0170	015.		FRAME LATH L 40
80 0171	016.		FRAME LATH R 40
72 1664	017.		FIXSTRIP FRAME 40
80 0169	018.		HEATSINK 40 FRAME DOWN
36 7454	019.		RIVET AL FE TAP/D/BS44 D3,2
80 0182	020.		HEATSINK 40 SMP
80 01881	021.		ISOLSHEET 15X24 40
80 01882	022.		ISOLSHEET 20X24 40
13 3058	023.		TRANSISTOR FIX CLIPS TO-220
13 3032	024.		TRANSISTOR FIX CLIPS TO-126
13 3039	0241		SPACER L 8 D 4 D1,2 CER
13 3062	025.		TRANSISTOR FIX CLIPS SOT-93
80 0218	026.		FIX MAINS CORD 40
36 7454	0261		RIVET AL FE TAP/D/BS44 D3,2
59 0217	027.		LABEL EHT ARROW
30 2102			CORE TUBE 1,3/4,95X40,5

ITEM NO.	SIT.		DESCRIPTION
11 4103	C..1		CAPACITOR POMEFF 330K K 100
11 1418	C..2		CAPACITOR ELSN 22M T 350
11 4103	C..3		CAPACITOR POMEFF 330K K 100
11 1479	C..4		CAPACITOR ELPR 470M Z5 25
11 1479	C..5		CAPACITOR ELPR 470M Z5 25
11 1406	C..6		CAPACITOR ELSN 10M T 250
11 2833	C..7		CAPACITOR CE DI 4K7 S 400
11 1418	C..8		CAPACITOR ELSN 22M T 350
11 1479	C..9		CAPACITOR ELPR 470M Z5 25
11 1479	C.10		CAPACITOR ELPR 470M Z5 25
11 50051	C.13	⚠	CAPACITOR PPMEPO 2K2 J 1500
11 1487	C.14		CAPACITOR ELPR 100M Z5 40
11 1487	C.15		CAPACITOR ELPR 100M Z5 40
11 4427	C.16		CAPACITOR PO FF 22K M 250
11 1491	C.17		CAPACITOR ELPR 1M Z5 63
11 39622	C.18		CAPACITOR PETPFP 10K J 400
11 2234	C.19		CAPACITOR NPO MI 22P G5 63
11 4714	C.20	⚠	CAPACITOR POSAPO 470K M 250
11 4722	C.21		CAPACITOR CESA Y 2K2 M 400
11 4722	C.22		CAPACITOR CESA Y 2K2 M 400
11 2837	C.23		CAPACITOR CE DI 10K S 400
11 2837	C.24		CAPACITOR CE DI 10K S 400
11 1654	C.25		CAPACITOR ELRA 220M T 385
11 4722	C.26	⚠	CAPACITOR CESA Y 2K2 M 400
11 4166	C.27		CAPACITOR POMEFF 220K K 400
11 47105	C.28		CAPACITOR POSAPO 100K M AC250
11 1151	C.30		CAPACITOR ELAX 2200M T 16
11 1466	C.31		CAPACITOR ELPR 100M Z5 16
11 2774	C.32		CAPACITOR CE MI 100K U5 63
11 1531	C.40		CAPACITOR ELPRMI 10M M5 35
11 4162	C.41		CAPACITOR POMEFF 100K K 400
11 1213	C.42		CAPACITOR ELAX 4M7 T 100
11 11565	C.45		CAPACITOR ELAX 10M Z 25
11 1468	C.50		CAPACITOR ELPR 470M Z5 16
11 1184	C.51		CAPACITOR ELAX 4M7 Z 40
11 41051	C.52		CAPACITOR POMEFF 560K K 100
11 4120	C.53		CAPACITOR POMEFF 10K K 250
11 5932	C.54		CAPACITOR PP RA 4K7 J5 63
11 4120	C.55		CAPACITOR POMEFF 10K K 250
11 4102	C.56		CAPACITOR POMEFF 220K K 100
11 4124	C.57		CAPACITOR POMEFF 22K K 250
11 4134	C.58		CAPACITOR POMEFF 150K K 250
11 2833	C.59		CAPACITOR CE DI 4K7 S 400
11 4140	C.60		CAPACITOR POMEFF 470K K 250
11 1190	C.61		CAPACITOR ELAX 100M T 40
11 4442	C.62		CAPACITOR PO FF 470K K 250
11 4592	C.63		CAPACITOR PP PO 470K K 250
11 1761	C.64	*	CAPACITOR PPMEPO 1K5 J 1500
11 1773	C.64	*	CAPACITOR PPMEPO 4K7 J 1500
11 1773	C.65	*	CAPACITOR PPMEPO 4K7 J 1500
11 17851	C.65	*	CAPACITOR PPMEPO 15K J 1500
11 4100	C.66		CAPACITOR POMEFF 100K K 100
11 4636	C.67		CAPACITOR HV AX 50K M 1600
11 1115	C.70		CAPACITOR ELAX 10M Z 6
11 4102	C.72		CAPACITOR POMEFF 220K K 100
11 37121	C.99		CAPACITOR POME 10K K5 100
11 3732	C100		CAPACITOR POME 470K K5 63
11 1193	C101		CAPACITOR ELAX 1000M T 40
11 3728	C102		CAPACITOR POME 220K K5 63
11 3732	C103		CAPACITOR POME 470K K5 63
11 4100	C104		CAPACITOR POMEFF 100K K 100
11 3724	C105		CAPACITOR POME 100K K5 63
11 1487	C106		CAPACITOR ELPR 100M Z5 40
11 1531	C107		CAPACITOR ELPRMI 10M M5 35
11 1548	C108		CAPACITOR ELPRMI 2M2 M5 50
11 11575	C109		CAPACITOR ELAX 22M Z 25
11 11841	C110		CAPACITOR ELAX 1M T 40
11 1147	C111		CAPACITOR ELAX 100M T 16
11 4124	C112		CAPACITOR POMEFF 22K K 250
11 4110	C113		CAPACITOR POMEFF 4M7 K 100
11 1164	C114		CAPACITOR ELAX 1000M T 25
11 3724	C115		CAPACITOR POME 100K K5 63
11 4602	C150		CAPACITOR POHVPO 47K M 1000
11 4162	C151		CAPACITOR POMEFF 100K K 400
11 1716			CAPACITOR CE 680P 1000
13 1637	D..1		DIODE BA158 SWITCH
13 1921	D..2		DIODE BY299 RECTIFIER
13 1911	D..3		DIODE PY206 RECTIFIER
13 1921	D..4		DIODE BY299 RECTIFIER
13 1921	D..5		DIODE BY299 RECTIFIER
13 1646	D..6		DIODE 1N4007 RECTIFIER
13 1637	D..7		DIODE BA158 SWITCH
13 1637	D..8		DIODE BA158 SWITCH
13 1646	D..9		DIODE 1N4007 RECTIFIER
13 19025	D.10		DIODE BY255 RECTIFIER
13 19025	D.11		DIODE BY255 RECTIFIER
13 19025	D.12		DIODE BY255 RECTIFIER
13 19025	D.13		DIODE BY255 RECTIFIER
13 1621	D.14		DIODE 1N4148 SWITCH
13 1621	D.40		DIODE 1N4148 SWITCH
13 1637	D.41		DIODE BA158 SWITCH
13 1621	D.42		DIODE 1N4148 SWITCH
13 2070	D.51		DIODE BG2097-643-415 CASCADE
13 1942	D.52		DIODE BY448 RECTIFIER
13 1921	D.53		DIODE BY299 RECTIFIER
13 1637	D.56		DIODE BA158 SWITCH
13 1644	D100		DIODE 1N4001 RECTIFIER
13 1621	D101		DIODE 1N4148 SWITCH
13 1621	D102		DIODE 1N4148 SWITCH
13 1637			DIODE BA158 SWITCH
13 1771			DIODE ZENER150V 0W5 B
31 41041	F..1		FUSE 4A 5X20 SLOW
31 41041	F..2		FUSE 4A 5X20 SLOW
31 4102	F..3		FUSE 1A250 5X20 FAST
13 4010	I..1		INTEGRATED CIRCUIT 7815
13 2787	I..2		INTEGRATED CIRCUIT 4601 TDA
13 2762	I.50		INTEGRATED CIRCUIT 2595 TDA
13 2790	I100		INTEGRATED CIRCUIT 2653A TDA
77 3028	L..1		COIL CHOKE SMPOWER31
77 3028	L..2		COIL CHOKE SMPOWER31
30 2108	L..3		CORE TUBE 1,3/3,5X3
77 3309	L..4		COIL CHOKE MAINS 32
71 2604	L..5		CORE FERROX D2/5L10
30 6403	L.50		COIL LINEARITY 4042/02 34
77 3363	L100	*	COIL BRIDGE 34GS
10 6107	P..1		TRIMPOT CAMH 10K M 0W05
10 6109	P.50		TRIMPOT CAMH 47K M 0W05
10 6109	P.51		TRIMPOT CAMH 47K M 0W05
10 52096	PTC1		RESISTOR PTC 220V PHILIPS
10 6109	P100		TRIMPOT CAMH 47K M 0W05
10 6104	P101		TRIMPOT CAMH 1K M 0W05
10 6101	P102		TRIMPOT CAMH 100E M 0W05
10 6105	P103		TRIMPOT CAMH 2K2 M 0W05
10 6105	P104		TRIMPOT CAMH 2K2 M 0W05
10 6109	P105		TRIMPOT CAMH 47K M 0W05
10 6111	P106		TRIMPOT CAMH 100K M 0W05
10 6315	P150		TRIMPOT CASH 2M2 M 0W15
71 6345	PC..		PC 40 FRAME SUP 2 761372
13 25095	Q..1		TRANSISTOR BU508A
13 1413	Q.40		TRANSISTOR BC557 ,BC307
13 14295	Q.50		TRANSISTOR BC549B,
13 1471	Q.51		TRANSISTOR BF458
13 25095	Q.52		TRANSISTOR BU508A

ITEM NO.	SIT.		DESCRIPTION
13 1418	Q100		TRANSISTOR BC559 ,BC309
13 14072	Q101		TRANSISTOR BC547A,BC237A
13 2570	Q102		TRANSISTOR BDX77,BD709
10 4415	R..1		RESISTOR WW V 15E K 11W
10 1206	R..2		RESISTOR CF 3E3 J 0W50
10 11947	R..3	⚠	RESISTOR CFF E47 K 0W40
10 1358	R..4		RESISTOR CF 68K J 1W
10 1244	R..5		RESISTOR CF 4K7 J 0W50
10 1359	R..6		RESISTOR CF 82K J 1W
10 11907	R..7	⚠	RESISTOR CFF E10 J 0W40
10 1217	R..8		RESISTOR CF 27E J 0W50
10 3254	R..9		RESISTOR MO 33K J 1W50
10 1100	R.10		RESISTOR CF 1E J 0W25
10 1100	R.11		RESISTOR CF 1E J 0W25
10 1160	R.12		RESISTOR CF 100K J 0W25
10 4268	R.13		RESISTOR WW V 33E K 7W
10 1152	R.14		RESISTOR CF 22K J 0W25
10 1148	R.15		RESISTOR CF 10K J 0W25
10 1265	R.16		RESISTOR CF 270K J 0W50
10 1139	R.17		RESISTOR CF 1K8 J 0W25
10 4407	R.18		RESISTOR WW V 3E3 K 11W
10 1267	R.19		RESISTOR CF 390K J 0W50
10 4670	R.20		RESISTOR HV 4M7 J 0W50
10 4670	R.21		RESISTOR HV 4M7 J 0W50
10 1155	R.22		RESISTOR CF 39K J 0W25
10 1157	R.23		RESISTOR CF 56K J 0W25
10 1143	R.24		RESISTOR CF 3K9 J 0W25
10 1253	R.25		RESISTOR CF 27K J 0W50
10 13997	R.26		RESISTOR CFF E10 K 1W
10 11907	R.27	⚠	RESISTOR CFF E10 J 0W40
10 1130	R.28		RESISTOR CF 330E J 0W25
10 1161	R.40		RESISTOR CF 120K J 0W25
10 1136	R.41		RESISTOR CF 1K J 0W25
10 1136	R.42		RESISTOR CF 1K J 0W25
10 1148	R.43		RESISTOR CF 10K J 0W25
10 1144	R.44		RESISTOR CF 4K7 J 0W25
10 1150	R.45		RESISTOR CF 15K J 0W25
10 1150	R.46		RESISTOR CF 15K J 0W25
10 1162	R.47		RESISTOR CF 150K J 0W25
10 1145	R.48		RESISTOR CF 5K6 J 0W25
10 1121	R.50		RESISTOR CF 56E J 0W25
10 1134	R.51		RESISTOR CF 680E J 0W25
10 1144	R.52		RESISTOR CF 4K7 J 0W25
10 1135	R.53		RESISTOR CF 820E J 0W25
10 1160	R.54		RESISTOR CF 100K J 0W25
10 1161	R.55		RESISTOR CF 120K J 0W25
10 1149	R.56		RESISTOR CF 12K J 0W25
10 1161	R.57		RESISTOR CF 120K J 0W25
10 1136	R.58		RESISTOR CF 1K J 0W25
10 4656	R.59		RESISTOR HV 1M2 J 0W50
10 1136	R.60		RESISTOR CF 1K J 0W25
10 1132	R.61		RESISTOR CF 470E J 0W25
10 4170	R.62		RESISTOR WW V 1K K 4W
10 4245	R.63		RESISTOR WW V 2K7 K 7W
10 4172	R.64		RESISTOR WW V 1E8 K 4W
10 1120	R.65		RESISTOR CF 47E J 0W25
10 14675	R.66	*	RESISTOR MF 390K J 1W50
10 14675	R.67	*	RESISTOR MF 390K J 1W50
10 1136	R.68		RESISTOR CF 1K J 0W25
10 4169	R.69		RESISTOR WW V 1K5 K 4W
10 1124	R.70		RESISTOR CF 100E J 0W25
10 1164	R.72		RESISTOR CF 220K J 0W25
10 1164	R.73		RESISTOR CF 220K J 0W25
10 1136	R.74		RESISTOR CF 1K J 0W25
10 1124	R.75		RESISTOR CF 100E J 0W25
10 1112	R.76		RESISTOR CF 10E J 0W25
10 1168	R.91		RESISTOR CF 470K J 0W25
10 1135	R.92		RESISTOR CF 820E J 0W25
10 1129	R.93		RESISTOR CF 270E J 0W25

ITEM NO.	SIT.	DESCRIPTION
10 1136	R.94	RESISTOR CF 1K J 0W25
10 1208	R.95	RESISTOR CF 4E7 J 0W50
10 1142	R.96	RESISTOR CF 3K3 J 0W25
10 1133	R.97	RESISTOR CF 560E J 0W25
10 1136	R.98	RESISTOR CF 1K J 0W25
10 1144	R100	RESISTOR CF 4K7 J 0W25
10 1168	R101	RESISTOR CF 470K J 0W25
10 1309	R102	RESISTOR CF 5E6 J 1W
10 1159	R103	RESISTOR CF 82K J 0W25
10 1149	R104	RESISTOR CF 12K J 0W25
10 1164	R105	RESISTOR CF 220K J 0W25
10 1156	R106	RESISTOR CF 47K J 0W25
10 1156	R107	RESISTOR CF 47K J 0W25
10 1142	R108	RESISTOR CF 3K3 J 0W25
10 1160	R109	RESISTOR CF 100K J 0W25
10 1151	R110	RESISTOR CF 18K J 0W25
10 1140	R111	RESISTOR CF 2K2 J 0W25
10 1151	R112	RESISTOR CF 18K J 0W25
10 1131	R113	RESISTOR CF 390E J 0W25
10 1126	R115	RESISTOR CF 150E J 0W25
10 1105	R116	RESISTOR CFF 2E7 J 0W25
10 1140	R117	RESISTOR CF 2K2 J 0W25
10 1156	R118	RESISTOR CF 47K J 0W25
10 1134	R119	RESISTOR CF 680E J 0W25
10 1156	R120	RESISTOR CF 47K J 0W25
10 1159	R121	RESISTOR CF 82K J 0W25
10 1136	R122	RESISTOR CF 1K J 0W25
10 1165	R123	RESISTOR CF 270K J 0W25
10 1140	R125	RESISTOR CF 2K2 J 0W25
10 4170	R126	RESISTOR WW V 1K K 4W
10 1103	R127	RESISTOR CF 1E8 J 0W25
10 4656	R150	RESISTOR HV 1M2 J 0W50
10 41748	R151	RESISTOR WWFV 4E7 K 3W
10 4664	R152	RESISTOR HV 2M7 J 0W50
10 12484	R154	RESISTOR CF 10K J 0W50
10 2038	R155	RESISTOR CC 1K5 K 0W50
10 12364	R156	RESISTOR CF 1K J 0W50
10 12364	R157	RESISTOR CF 1K J 0W50
10 1262	R158	RESISTOR CF 150K J 0W50
10 12364	R159	RESISTOR CF 1K J 0W50
10 1124		RESISTOR CF 100E J 0W25
10 4656		RESISTOR HV 1M2 J 0W50
77 4117	T..1	TRANSFORMER SMP TCT1640
77 3360	T.50	TRANSFORMER DRIVER HOR 34
77 4124	T.51	TRANSFORMER EHT DCD1640
13 1749	Z.40	DIODE ZENER 18V 0W5 C
76 11858		UN.SCAN+SHIFT PCD1640
76 12938		UN.I SENSE ABL40 PCD QUAD SR
31 3577	001.	CONNECTOR MT MOBTE P 2 10
31 5310	002.	CONNECTOR TAB MOBTE P 1 2,8
31 3454	003.	CONNECTOR TAB MOBTE P 1 4,8
31 3578	004.	CONNECTOR MT MOBTE P 4 7,5
31 32651	005.	RESISTOR WW V HOLDER H20
31 3224	006.	RESISTOR WW V HOLDER H25
31 4501	007.	FUSE 5X20 CLIPS
31 1034	008.	TUBE SOCKET SG 11-13KV
31 3249	009.	CONNECTOR IC FOBTE P18 7,5
31 3599	010.	CONNECTOR EDGE FOBTE P20 5
36 2122	012.	SCREW DIN7985 M 3 X 8 MP+
36 6102	013.	NUT DIN934 M 3 HEXAGONAL
80 0552	015.	FRAME LATH L TCT1640
80 0553	016.	FRAME LATH R TCT1640
72 1664	017.	FIXSTRIP FRAME 40
80 0551	018.	HEATSINK TCT FRAME DOWN
36 7454	019.	RIVET AL FE TAP/D/BS44 D3,2
80 0182	020.	HEATSINK 40 SMP

ITEM NO.	SIT.	DESCRIPTION
80 01881	021.	ISOLSHEET 15X24 40
80 01882	022.	ISOLSHEET 20X24 40
13 3058	023.	TRANSISTOR FIX CLIPS TO-220
13 3032	024.	TRANSISTOR FIX CLIPS TO-126
13 3039	0241	SPACER L 8 D 4 D1,2 CER
13 3062	025.	TRANSISTOR FIX CLIPS SOT-93
80 0218	026.	FIX MAINS CORD 40
36 7454	0261	RIVET AL FE TAP/D/BS44 D3,2
59 0217	027.	LABEL EHT ARROW
36 2022		SCREW DIN84 M 3 X 8 MP-
36 6102		NUT DIN934 M 3 HEXAGONAL
36 7502		WASHER DIN6798 A 3,2
80 1205		GUIDING SCAN REDUCTION PCD1640
80 1206		FIXING SCAN REDUCTION

ITEM NO.	SIT.	DESCRIPTION
13 1646	D..1	DIODE 1N4007 RECTIFIER
13 1646	D..2	DIODE 1N4007 RECTIFIER
13 1621	D..3	DIODE 1N4148 SWITCH
10 6109	P..2	TRIMPOT CAMH 47K M 0W05
10 6114	P..3	TRIMPOT CAMH 1M M 0W05
10 6511	P..4	TRIMPOT WW HK 100E K 2W
71 5864	PC..	PC 40 SCANN+SHIFT 761185
13 14295	Q..1	TRANSISTOR BC549B,
10 1160	R..2	RESISTOR CF 100K J 0W25
10 1144	R..3	RESISTOR CF 4K7 J 0W25
10 1168	R..4	RESISTOR CF 470K J 0W25
77 4138	T..1	COIL SHIFT HOR PCD1640
31 5310	001.	CONNECTOR TAB MOBTE P 1 2,8
34 8019	002.	WIRE TIE L100

ITEM NO.	SIT.	DESCRIPTION
11 4103	C..1	CAPACITOR POMEFF 330K K 100
11 1418	C..2	CAPACITOR ELSN 22M T 350
11 4103	C..3	CAPACITOR POMEFF 330K K 100
11 1479	C..4	CAPACITOR ELPR 470M Z5 25
11 1479	C..5	CAPACITOR ELPR 470M Z5 25
11 1406	C..6	CAPACITOR ELSN 10M T 250
11 2833	C..7	CAPACITOR CE DI 4K7 S 400
11 1418	C..8	CAPACITOR ELSN 22M T 350
11 1479	C.10	CAPACITOR ELPR 470M Z5 25
11 50051	C.13	CAPACITOR PPMEPO 2K2 J 1500
11 1487	C.14	CAPACITOR ELPR 100M Z5 40
11 1487	C.15	CAPACITOR ELPR 100M Z5 40
11 4427	C.16	CAPACITOR PO FF 22K M 250
11 1491	C.17	CAPACITOR ELPR 1M Z5 63
11 39622	C.18	CAPACITOR PETPFP 10K J 400
11 2234	C.19	CAPACITOR NPO MI 22P G5 63
11 4714	C.20	CAPACITOR POSAPO 470K M 250
11 4722	C.21	CAPACITOR CESA Y 2K2 M 400
11 4722	C.22	CAPACITOR CESA Y 2K2 M 400
11 2837	C.23	CAPACITOR CE DI 10K S 400
11 2837	C.24	CAPACITOR CE DI 10K S 400
11 1654	C.25	CAPACITOR ELRA 220M T 385
11 4722	C.26	CAPACITOR CESA Y 2K2 M 400
11 4166	C.27	CAPACITOR POMEFF 220K K 400
11 47105	C.28	CAPACITOR POSAPO 100K M AC250
11 1151	C.30	CAPACITOR ELAX 2200M T 16
11 1466	C.31	CAPACITOR ELPR 100M Z5 16
11 2774	C.32	CAPACITOR CE MI 100K U5 63
11 1531	C.40	CAPACITOR ELPRMI 10M M5 35
11 4162	C.41	CAPACITOR POMEFF 100K K 400
11 1213	C.42	CAPACITOR ELAX 4M7 T 100
11 1468	C.50	CAPACITOR ELPR 470M Z5 16
11 1184	C.51	CAPACITOR ELAX 4M7 Z 40
11 41051	C.52	CAPACITOR POMEFF 560K K 100
11 4120	C.53	CAPACITOR POMEFF 10K K 250
11 5932	C.54	CAPACITOR PP RA 4K7 J5 63
11 4120	C.55	CAPACITOR POMEFF 10K K 250
11 4102	C.56	CAPACITOR POMEFF 220K K 100
11 4124	C.57	CAPACITOR POMEFF 22K K 250
11 4134	C.58	CAPACITOR POMEFF 150K K 250
11 2833	C.59	CAPACITOR CE DI 4K7 S 400
11 4140	C.60	CAPACITOR POMEFF 470K K 250
11 1190	C.61	CAPACITOR ELAX 100M T 40
11 4442	C.62	CAPACITOR PO FF 470K K 250
11 4590	C.63	CAPACITOR PP PO 330K K 250
11 1780	C.64	CAPACITOR PPMEPO 9K1 J 1500
11 17891	C.65	CAPACITOR PPMEPO 22K J 750
11 4100	C.66	CAPACITOR POMEFF 100K K 100
11 4636	C.67	CAPACITOR HV AX 50K M 1600
11 1115	C.70	CAPACITOR ELAX 10M Z 6
11 4102	C.72	CAPACITOR POMEFF 220K K 100
11 3732	C100	CAPACITOR POME 470K K5 63
11 1193	C101	CAPACITOR ELAX 1000M T 40
11 3728	C102	CAPACITOR POME 220K K5 63
11 3732	C103	CAPACITOR POME 470K K5 63
11 4100	C104	CAPACITOR POMEFF 100K K 100
11 3724	C105	CAPACITOR POME 100K K5 63
11 1487	C106	CAPACITOR ELPR 100M Z5 40
11 1531	C107	CAPACITOR ELPRMI 10M M5 35
11 1548	C108	CAPACITOR ELPRMI 2M2 M5 50
11 11575	C109	CAPACITOR ELAX 22M Z 25
11 11841	C110	CAPACITOR ELAX 1M T 40
11 1147	C111	CAPACITOR ELAX 100M T 16
11 4124	C112	CAPACITOR POMEFF 22K K 250
11 4110	C113	CAPACITOR POMEFF 4M7 K 100
11 1164	C114	CAPACITOR ELAX 1000M T 25
11 3724	C115	CAPACITOR POME 100K K5 63
11 4602	C150	CAPACITOR POHVPO 47K M 1000
11 4162	C151	CAPACITOR POMEFF 100K K 400

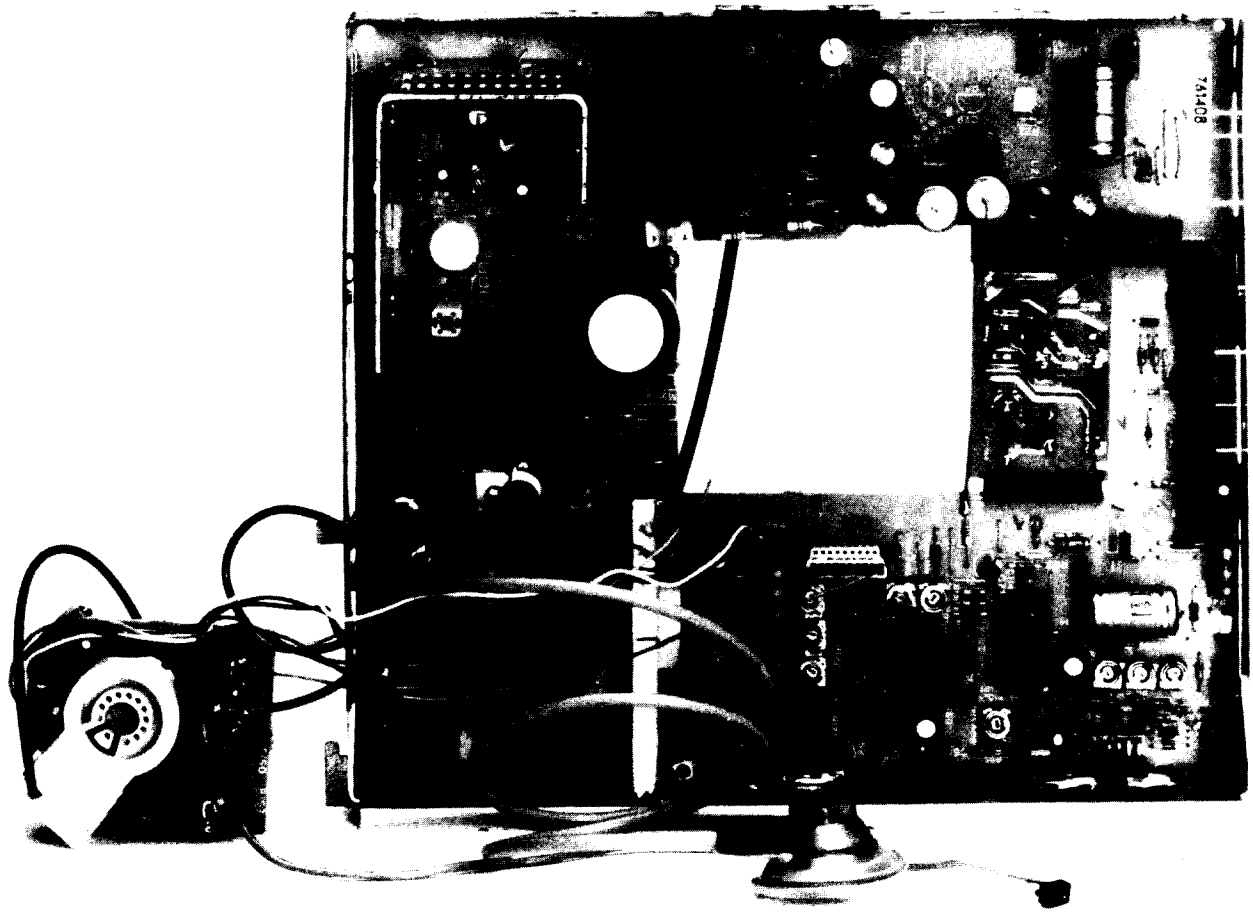
ITEM NO.	SIT.	DESCRIPTION
13 1637	D..1	DIODE BA158 SWITCH
13 1921	D..2	DIODE BY299 RECTIFIER
13 1924	D..4	DIODE BYW95C BYX55-6 RECTIFIER
13 1924	D..5	DIODE BYW95C BYX55-6 RECTIFIER
13 1646	D..6	DIODE 1N4007 RECTIFIER
13 1637	D..7	DIODE BA158 SWITCH
13 1637	D..8	DIODE BA158 SWITCH
13 1646	D..9	DIODE 1N4007 RECTIFIER
13 19025	D.10	DIODE BY255 RECTIFIER
13 19025	D.11	DIODE BY255 RECTIFIER
13 19025	D.12	DIODE BY255 RECTIFIER
13 19025	D.13	DIODE BY255 RECTIFIER
13 1621	D.14	DIODE 1N4148 SWITCH
13 1621	D.40	DIODE 1N4148 SWITCH
13 1637	D.41	DIODE BA158 SWITCH
13 1621	D.42	DIODE 1N4148 SWITCH
13 1637	D.50	DIODE BA158 SWITCH
13 2068	D.51	DIODE TVK-196-17 CASCADE
13 1942	D.52	DIODE BY448 RECTIFIER
13 1921	D.53	DIODE BY299 RECTIFIER
13 1921	D.54	DIODE BY299 RECTIFIER
13 1921	D.55	DIODE BY299 RECTIFIER
13 1637	D.56	DIODE BA158 SWITCH
13 1644	D100	DIODE 1N4001 RECTIFIER
13 1621	D101	DIODE 1N4148 SWITCH
13 1621	D102	DIODE 1N4148 SWITCH
31 4102	F..3	FUSE 1A250 5X20 FAST
13 4010	I..1	INTEGRATED CIRCUIT 7815
13 2787	I..2	INTEGRATED CIRCUIT 4601 TDA
13 2762	I.50	INTEGRATED CIRCUIT 2595 TDA
13 2790	I100	INTEGRATED CIRCUIT 2653A TDA
77 3028	L..1	COIL CHOKE SMPOWER31
77 3028	L..2	COIL CHOKE SMPOWER31
30 2108	L..3	CORE TUBE 1,3/3,5X3
77 3309	L..4	COIL CHOKE MAINS 32
71 2604	L..5	CORE FERROX D2/5L10
30 6407	L.50	COIL LINEARITY 4042/08A 32
77 3363	L100	COIL BRIDGE 34GS
10 6107	P..1	TRIMPOT CAMH 10K M OW05
10 6109	P.50	TRIMPOT CAMH 47K M OW05
10 6109	P.51	TRIMPOT CAMH 47K M OW05
10 52096	PTC1	RESISTOR PTC 220V PHILIPS
10 6109	P100	TRIMPOT CAMH 47K M OW05
10 6104	P101	TRIMPOT CAMH 1K M OW05
10 6101	P102	TRIMPOT CAMH 100E M OW05
10 6105	P103	TRIMPOT CAMH 2K2 M OW05
10 6105	P104	TRIMPOT CAMH 2K2 M OW05
10 6109	P105	TRIMPOT CAMH 47K M OW05
10 6111	P106	TRIMPOT CAMH 100K M OW05
10 6315	P150	TRIMPOT CASH 2M2 M OW15
71 6345	PC..	PC 40 FRAME SUP 2 761372
13 25095	Q..1	TRANSISTOR BU508A
13 1413	Q.40	TRANSISTOR BC557 ,BC307
13 14295	Q.50	TRANSISTOR BC549B,
13 1471	Q.51	TRANSISTOR BF458
13 25095	Q.52	TRANSISTOR BU508A
13 1418	Q100	TRANSISTOR BC559 ,BC309
13 14072	Q101	TRANSISTOR BC547A,BC237A
13 2570	Q102	TRANSISTOR BDX77,BD709
10 4415	R..1	RESISTOR WW V 15E K 11W
10 1206	R..2	RESISTOR CF 3E3 J OW50
10 11947	R..3	RESISTOR CFF E47 K OW40

ITEM NO.	SIT.	DESCRIPTION			
10 1358	R..4	RESISTOR CF	68K	J	1W
10 1244	R..5	RESISTOR CF	4K7	J	0W50
10 1359	R..6	RESISTOR CF	82K	J	1W
10 11907	R..7	RESISTOR CFF	E10	J	0W40
10 1217	R..8	RESISTOR CF	27E	J	0W50
10 3254	R..9	RESISTOR MO	33K	J	1W50
10 1100	R.10	RESISTOR CF	1E	J	0W25
10 1100	R.11	RESISTOR CF	1E	J	0W25
10 1160	R.12	RESISTOR CF	100K	J	0W25
10 4268	R.13	RESISTOR WW V	33E	K	7W
10 1152	R.14	RESISTOR CF	22K	J	0W25
10 1148	R.15	RESISTOR CF	10K	J	0W25
10 1265	R.16	RESISTOR CF	270K	J	0W50
10 1139	R.17	RESISTOR CF	1K8	J	0W25
10 5002	R.18	RESISTOR NTC	50E		1W
10 1267	R.19	RESISTOR CF	390K	J	0W50
10 4670	R.20	RESISTOR HV	4M7	J	0W50
10 4670	R.21	RESISTOR HV	4M7	J	0W50
10 1155	R.22	RESISTOR CF	39K	J	0W25
10 1157	R.23	RESISTOR CF	56K	J	0W25
10 1143	R.24	RESISTOR CF	3K9	J	0W25
10 1253	R.25	RESISTOR CF	27K	J	0W50
10 13997	R.26	RESISTOR CFF	E10	K	1W
10 1130	R.28	RESISTOR CF	330E	J	0W25
10 1136	R.41	RESISTOR CF	1K	J	0W25
10 1131	R.42	RESISTOR CF	390E	J	0W25
10 1148	R.43	RESISTOR CF	10K	J	0W25
10 1144	R.44	RESISTOR CF	4K7	J	0W25
10 1162	R.47	RESISTOR CF	150K	J	0W25
10 1145	R.48	RESISTOR CF	5K6	J	0W25
10 1121	R.50	RESISTOR CF	56E	J	0W25
10 1134	R.51	RESISTOR CF	680E	J	0W25
10 1144	R.52	RESISTOR CF	4K7	J	0W25
10 1135	R.53	RESISTOR CF	820E	J	0W25
10 1160	R.54	RESISTOR CF	100K	J	0W25
10 1161	R.55	RESISTOR CF	120K	J	0W25
10 1149	R.56	RESISTOR CF	12K	J	0W25
10 1161	R.57	RESISTOR CF	120K	J	0W25
10 1136	R.58	RESISTOR CF	1K	J	0W25
10 4656	R.59	RESISTOR HV	1M2	J	0W50
10 1136	R.60	RESISTOR CF	1K	J	0W25
10 1132	R.61	RESISTOR CF	470E	J	0W25
10 4170	R.62	RESISTOR WW V	1K	K	4W
10 4245	R.63	RESISTOR WW V	2K7	K	7W
10 4172	R.64	RESISTOR WW V	1E8	K	4W
10 1120	R.65	RESISTOR CF	47E	J	0W25
10 14675	R.66	RESISTOR MF	390K	J	1W50
10 14675	R.67	RESISTOR MF	390K	J	1W50
10 1130	R.68	RESISTOR CF	330E	J	0W25
10 4169	R.69	RESISTOR WW V	1K5	K	4W
10 1124	R.70	RESISTOR CF	100E	J	0W25
10 1164	R.72	RESISTOR CF	220K	J	0W25
10 1164	R.73	RESISTOR CF	220K	J	0W25
10 1136	R.74	RESISTOR CF	1K	J	0W25
10 1124	R.75	RESISTOR CF	100E	J	0W25
10 1112	R.76	RESISTOR CF	10E	J	0W25
10 1168	R.91	RESISTOR CF	470K	J	0W25
10 1135	R.92	RESISTOR CF	820E	J	0W25
10 1129	R.93	RESISTOR CF	270E	J	0W25
10 1136	R.94	RESISTOR CF	1K	J	0W25
10 1208	R.95	RESISTOR CF	4E7	J	0W50
10 1142	R.96	RESISTOR CF	3K3	J	0W25
10 1133	R.97	RESISTOR CF	560E	J	0W25
10 1136	R.98	RESISTOR CF	1K	J	0W25
10 1144	R100	RESISTOR CF	4K7	J	0W25
10 1168	R101	RESISTOR CF	470K	J	0W25
10 1309	R102	RESISTOR CF	5E6	J	1W
10 1159	R103	RESISTOR CF	82K	J	0W25
10 1149	R104	RESISTOR CF	12K	J	0W25
10 1164	R105	RESISTOR CF	220K	J	0W25
10 1156	R106	RESISTOR CF	47K	J	0W25
10 1156	R107	RESISTOR CF	47K	J	0W25
10 1142	R108	RESISTOR CF	3K3	J	0W25
10 1160	R109	RESISTOR CF	100K	J	0W25
10 1151	R110	RESISTOR CF	18K	J	0W25
10 1140	R111	RESISTOR CF	2K2	J	0W25
10 1151	R112	RESISTOR CF	18K	J	0W25
10 1131	R113	RESISTOR CF	390E	J	0W25
10 1126	R115	RESISTOR CF	150E	J	0W25
10 1102	R116	RESISTOR CF	1E5	J	0W25
10 1140	R117	RESISTOR CF	2K2	J	0W25
10 1156	R118	RESISTOR CF	47K	J	0W25
10 1134	R119	RESISTOR CF	680E	J	0W25
10 1156	R120	RESISTOR CF	47K	J	0W25
10 1159	R121	RESISTOR CF	82K	J	0W25
10 1136	R122	RESISTOR CF	1K	J	0W25
10 1165	R123	RESISTOR CF	270K	J	0W25
10 1140	R125	RESISTOR CF	2K2	J	0W25
10 4170	R126	RESISTOR WW V	1K	K	4W
10 1103	R127	RESISTOR CF	1E8	J	0W25
10 4656	R150	RESISTOR HV	1M2	J	0W50
10 41728	R151	RESISTOR WWFV	1E8	K	4W
10 4664	R152	RESISTOR HV	2M7	J	0W50
10 12484	R154	RESISTOR CF	10K	J	0W50
10 2038	R155	RESISTOR CC	1K5	K	0W50
10 12364	R156	RESISTOR CF	1K	J	0W50
10 12364	R157	RESISTOR CF	1K	J	0W50
10 1262	R158	RESISTOR CF	150K	J	0W50
10 12364	R159	RESISTOR CF	1K	J	0W50
10 1124		RESISTOR CF	100E	J	0W25
77 41106	T..1	TRANSFORMER SMP 67 CEBEC			40
77 3360	T.50	TRANSFORMER DRIVER HOR			34
77 41227	T.51	TRANSFORMER EHT			MCD2640
13 1749	Z.40	DIODE ZENER 18V 0W5 C			
76 1293		UN.I SENSE ABL40			
31 3577	001.	CONNECTOR MT MOBTE P 2 10			
31 5310	002.	CONNECTOR TAB MOBTE P 1 2,8			
31 3454	003.	CONNECTOR TAB MOBTE P 1 4,8			
31 3578	004.	CONNECTOR MT MOBTE P 4 7,5			
31 32651	005.	RESISTOR WW V HOLDER H20			
31 3224	006.	RESISTOR WW V HOLDER H25			
31 4501	007.	FUSE 5X20 CLIPS			
31 1035	008.	TUBE SOCKET SG PIL-S4			
31 3249	009.	CONNECTOR IC FOBTE P18 7,5			
31 3599	010.	CONNECTOR EDGE FOBTE P20 5			
36 2122	012.	SCREW DIN7985 M 3 X 8 MP+			
36 6102	013.	NUT DIN934 M 3 HEXAGONAL			
80 0170	015.	FRAME LATH L 40			
80 0171	016.	FRAME LATH R 40			
72 1664	017.	FIXSTRIP FRAME 40			
80 0169	018.	HEATSINK 40 FRAME DOWN			
36 7454	019.	RIVET AL FE TAP/D/BS44 D3,2			
80 0182	020.	HEATSINK 40 SMP			
80 01881	021.	ISOLSHEET 15X24 40			
80 01882	022.	ISOLSHEET 20X24 40			
13 3058	023.	TRANSISTOR FIX CLIPS TO-220			
13 3032	024.	TRANSISTOR FIX CLIPS TO-126			
13 3039	0241	SPACER L 8 D 4 D1,2 CER			
13 3062	025.	TRANSISTOR FIX CLIPS SOT-93			
80 0218	026.	FIX MAINS CORD 40			
36 7454	0261	RIVET AL FE TAP/D/BS44 D3,2			
59 0217	027.	LABEL EHT ARROW			
30 2102		CORE TUBE 1,3/4,95X40,5			

ITEM NO.	SIT.	DESCRIPTION
11 4103	C..1	CAPACITOR POMEFF 330K K 100
11 1418	C..2	CAPACITOR ELSN 22M T 350
11 4103	C..3	CAPACITOR POMEFF 330K K 100
11 1479	C..4	CAPACITOR ELPR 470M Z5 25
11 1479	C..5	CAPACITOR ELPR 470M Z5 25
11 1406	C..6	CAPACITOR ELSN 10M T 250
11 2833	C..7	CAPACITOR CE DI 4K7 S 400
11 1418	C..8	CAPACITOR ELSN 22M T 350
11 1479	C.10	CAPACITOR ELPR 470M Z5 25
11 50051	C.13	CAPACITOR PPMEPO 2K2 J 1500
11 1487	C.14	CAPACITOR ELPR 100M Z5 40
11 1487	C.15	CAPACITOR ELPR 100M Z5 40
11 4427	C.16	CAPACITOR PO FF 22K M 250
11 1491	C.17	CAPACITOR ELPR 1M Z5 63
11 39622	C.18	CAPACITOR PETPFP 10K J 400
11 2234	C.19	CAPACITOR NPO MI 22P G5 63
11 4714	C.20	CAPACITOR POSAPO 470K M 250
11 4722	C.21	CAPACITOR CESA Y 2K2 M 400
11 4722	C.22	CAPACITOR CESA Y 2K2 M 400
11 2837	C.23	CAPACITOR CE DI 10K S 400
11 2837	C.24	CAPACITOR CE DI 10K S 400
11 1654	C.25	CAPACITOR ELRA 220M T 385
11 4722	C.26	CAPACITOR CESA Y 2K2 M 400
11 4166	C.27	CAPACITOR POMEFF 220K K 400
11 47105	C.28	CAPACITOR POSAPO 100K M AC250
11 1151	C.30	CAPACITOR ELAX 2200M T 16
11 1466	C.31	CAPACITOR ELPR 100M Z5 16
11 2774	C.32	CAPACITOR CE MI 100K U5 63
11 1531	C.40	CAPACITOR ELPRMI 10M M5 35
11 4162	C.41	CAPACITOR POMEFF 100K K 400
11 1213	C.42	CAPACITOR ELAX 4M7 T 100
11 1468	C.50	CAPACITOR ELPR 470M Z5 16
11 1184	C.51	CAPACITOR ELAX 4M7 Z 40
11 41051	C.52	CAPACITOR POMEFF 560K K 100
11 4120	C.53	CAPACITOR POMEFF 10K K 250
11 5932	C.54	CAPACITOR PP RA 4K7 J5 63
11 4120	C.55	CAPACITOR POMEFF 10K K 250
11 4102	C.56	CAPACITOR POMEFF 220K K 100
11 4124	C.57	CAPACITOR POMEFF 22K K 250
11 4134	C.58	CAPACITOR POMEFF 150K K 250
11 2833	C.59	CAPACITOR CE DI 4K7 S 400
11 4140	C.60	CAPACITOR POMEFF 470K K 250
11 1190	C.61	CAPACITOR ELAX 100M T 40
11 4442	C.62	CAPACITOR PO FF 470K K 250
11 4590	C.63	CAPACITOR PP PO 330K K 250
11 1780	C.64	CAPACITOR PPMEPO 9K1 J 1500
11 17891	C.65	CAPACITOR PPMEPO 22K J 750
11 4100	C.66	CAPACITOR POMEFF 100K K 100
11 4636	C.67	CAPACITOR HV AX 50K M 1600
11 1115	C.70	CAPACITOR ELAX 10M Z 6
11 4102	C.72	CAPACITOR POMEFF 220K K 100
11 3732	C100	CAPACITOR POME 470K K5 63
11 1193	C101	CAPACITOR ELAX 1000M T 40
11 3728	C102	CAPACITOR POME 220K K5 63
11 3732	C103	CAPACITOR POME 470K K5 63
11 4100	C104	CAPACITOR POMEFF 100K K 100
11 3724	C105	CAPACITOR POME 100K K5 63
11 1487	C106	CAPACITOR ELPR 100M Z5 40
11 1531	C107	CAPACITOR ELPRMI 10M M5 35
11 1548	C108	CAPACITOR ELPRMI 2M2 M5 50
11 11575	C109	CAPACITOR ELAX 22M Z 25
11 11841	C110	CAPACITOR ELAX 1M T 40
11 1147	C111	CAPACITOR ELAX 100M T 16
11 4124	C112	CAPACITOR POMEFF 22K K 250
11 4110	C113	CAPACITOR POMEFF 4M7 K 100
11 1164	C114	CAPACITOR ELAX 1000M T 25
11 3724	C115	CAPACITOR POME 100K K5 63
11 4602	C150	CAPACITOR POHVPO 47K M 1000
11 4162	C151	CAPACITOR POMEFF 100K K 400

ITEM NO.	SIT.	DESCRIPTION
13 1637	D..1	DIODE BA158 SWITCH
13 1921	D..2	DIODE BY299 RECTIFIER
13 1924	D..4	DIODE BYW95C BYX55-6 RECTIFIER
13 1924	D..5	DIODE BYW95C BYX55-6 RECTIFIER
13 1646	D..6	DIODE 1N4007 RECTIFIER
13 1637	D..7	DIODE BA158 SWITCH
13 1637	D..8	DIODE BA158 SWITCH
13 1646	D..9	DIODE 1N4007 RECTIFIER
13 19025	D.10	DIODE BY255 RECTIFIER
13 19025	D.11	DIODE BY255 RECTIFIER
13 19025	D.12	DIODE BY255 RECTIFIER
13 19025	D.13	DIODE BY255 RECTIFIER
13 1621	D.14	DIODE 1N4148 SWITCH
13 1621	D.40	DIODE 1N4148 SWITCH
13 1637	D.41	DIODE BA158 SWITCH
13 1621	D.42	DIODE 1N4148 SWITCH
13 1637	D.50	DIODE BA158 SWITCH
13 2068	D.51	DIODE TVK-196-17 CASCADE
13 1942	D.52	DIODE BY448 RECTIFIER
13 1921	D.53	DIODE BY299 RECTIFIER
13 1921	D.54	DIODE BY299 RECTIFIER
13 1921	D.55	DIODE BY299 RECTIFIER
13 1637	D.56	DIODE BA158 SWITCH
13 1644	D100	DIODE 1N4001 RECTIFIER
13 1621	D101	DIODE 1N4148 SWITCH
13 1621	D102	DIODE 1N4148 SWITCH
31 41041	F..1	FUSE 4A 5X20 SLOW
31 41041	F..2	FUSE 4A 5X20 SLOW
31 4102	F..3	FUSE 1A250 5X20 FAST
13 4010	I..1	INTEGRATED CIRCUIT 7815
13 2787	I..2	INTEGRATED CIRCUIT 4601 TDA
13 2762	I.50	INTEGRATED CIRCUIT 2595 TDA
13 2790	I100	INTEGRATED CIRCUIT 2653A TDA
77 3028	L..1	COIL CHOKE SMPOWER31
77 3028	L..2	COIL CHOKE SMPOWER31
30 2108	L..3	CORE TUBE 1,3/3,5X3
77 3309	L..4	COIL CHOKE MAINS 32
71 2604	L..5	CORE FERROX D2/5L10
30 6407	L.50	COIL LINEARITY 4042/08A 32
77 3363	L100	COIL BRIDGE 34GS
10 6107	P..1	TRIMPOT CAMH 10K M 0W05
10 6109	P.50	TRIMPOT CAMH 47K M 0W05
10 6109	P.51	TRIMPOT CAMH 47K M 0W05
10 52096	PTC1	RESISTOR PTC 220V PHILIPS
10 6109	P100	TRIMPOT CAMH 47K M 0W05
10 6104	P101	TRIMPOT CAMH 1K M 0W05
10 6101	P102	TRIMPOT CAMH 100E M 0W05
10 6105	P103	TRIMPOT CAMH 2K2 M 0W05
10 6105	P104	TRIMPOT CAMH 2K2 M 0W05
10 6109	P105	TRIMPOT CAMH 47K M 0W05
10 6111	P106	TRIMPOT CAMH 100K M 0W05
10 6315	P150	TRIMPOT CASH 2M2 M 0W15
71 6345	PC..	PC 40 FRAME SUP 2 761372
13 25095	Q..1	TRANSISTOR BU508A
13 1413	Q.40	TRANSISTOR BC557 ,BC307
13 1411	Q.50	TRANSISTOR BC549C,BC239C
13 1471	Q.51	TRANSISTOR BF458
13 25095	Q.52	TRANSISTOR BU508A
13 1418	Q100	TRANSISTOR BC559 ,BC309
13 14072	Q101	TRANSISTOR BC547A,BC237A
13 2570	Q102	TRANSISTOR BDX77,BD709
10 4415	R..1	RESISTOR WW V 15E K 11W

ITEM NO.	SIT.	DESCRIPTION
10 1206	R..2	RESISTOR CF 3E3 J 0W50
10 11947	R..3	RESISTOR CFF E47 K 0W40
10 1358	R..4	RESISTOR CF 68K J 1W
10 1244	R..5	RESISTOR CF 4K7 J 0W50
10 1359	R..6	RESISTOR CF 82K J 1W
10 11907	R..7	RESISTOR CFF E10 J 0W40
10 1217	R..8	RESISTOR CF 27E J 0W50
10 3254	R..9	RESISTOR MO 33K J 1W50
10 1100	R.10	RESISTOR CF 1E J 0W25
10 1100	R.11	RESISTOR CF 1E J 0W25
10 1160	R.12	RESISTOR CF 100K J 0W25
10 4268	R.13	RESISTOR WW V 33E K 7W
10 1152	R.14	RESISTOR CF 22K J 0W25
10 1148	R.15	RESISTOR CF 10K J 0W25
10 1265	R.16	RESISTOR CF 270K J 0W50
10 1139	R.17	RESISTOR CF 1K8 J 0W25
10 4407	R.18	RESISTOR WW V 3E3 K 11W
10 1267	R.19	RESISTOR CF 390K J 0W50
10 4670	R.20	RESISTOR HV 4M7 J 0W50
10 4670	R.21	RESISTOR HV 4M7 J 0W50
10 1155	R.22	RESISTOR CF 39K J 0W25
10 1157	R.23	RESISTOR CF 56K J 0W25
10 1143	R.24	RESISTOR CF 3K9 J 0W25
10 1253	R.25	RESISTOR CF 27K J 0W50
10 11907	R.26	RESISTOR CFF E10 J 0W40
10 1130	R.28	RESISTOR CF 330E J 0W25
10 1136	R.41	RESISTOR CF 1K J 0W25
10 1131	R.42	RESISTOR CF 390E J 0W25
10 1148	R.43	RESISTOR CF 10K J 0W25
10 1144	R.44	RESISTOR CF 4K7 J 0W25
10 1162	R.47	RESISTOR CF 150K J 0W25
10 1145	R.48	RESISTOR CF 5K6 J 0W25
10 1121	R.50	RESISTOR CF 56E J 0W25
10 1134	R.51	RESISTOR CF 680E J 0W25
10 1144	R.52	RESISTOR CF 4K7 J 0W25
10 1135	R.53	RESISTOR CF 820E J 0W25
10 1160	R.54	RESISTOR CF 100K J 0W25
10 1161	R.55	RESISTOR CF 120K J 0W25
10 1149	R.56	RESISTOR CF 12K J 0W25
10 1161	R.57	RESISTOR CF 120K J 0W25
10 1136	R.58	RESISTOR CF 1K J 0W25
10 4656	R.59	RESISTOR HV 1M2 J 0W50
10 1136	R.60	RESISTOR CF 1K J 0W25
10 1132	R.61	RESISTOR CF 470E J 0W25
10 4170	R.62	RESISTOR WW V 1K K 4W
10 4245	R.63	RESISTOR WW V 2K7 K 7W
10 4172	R.64	RESISTOR WW V 1E8 K 4W
10 1120	R.65	RESISTOR CF 47E J 0W25
10 14675	R.66	RESISTOR MF 390K J 1W50
10 14675	R.67	RESISTOR MF 390K J 1W50
10 1130	R.68	RESISTOR CF 330E J 0W25
10 4169	R.69	RESISTOR WW V 1K5 K 4W
10 1124	R.70	RESISTOR CF 100E J 0W25
10 1164	R.72	RESISTOR CF 220K J 0W25
10 1164	R.73	RESISTOR CF 220K J 0W25
10 1136	R.74	RESISTOR CF 1K J 0W25
10 1124	R.75	RESISTOR CF 100E J 0W25
10 1112	R.76	RESISTOR CF 10E J 0W25
10 1168	R.91	RESISTOR CF 470K J 0W25
10 1135	R.92	RESISTOR CF 820E J 0W25
10 1129	R.93	RESISTOR CF 270E J 0W25
10 1136	R.94	RESISTOR CF 1K J 0W25
10 1208	R.95	RESISTOR CF 4E7 J 0W50
10 1142	R.96	RESISTOR CF 3K3 J 0W25
10 1133	R.97	RESISTOR CF 560E J 0W25
10 1136	R.98	RESISTOR CF 1K J 0W25
10 1144	R100	RESISTOR CF 4K7 J 0W25
10 1168	R101	RESISTOR CF 470K J 0W25
10 1309	R102	RESISTOR CF 5E6 J 1W
10 1159	R103	RESISTOR CF 82K J 0W25
10 1149	R104	RESISTOR CF 12K J 0W25
10 1164	R105	RESISTOR CF 220K J 0W25
10 1156	R106	RESISTOR CF 47K J 0W25
10 1156	R107	RESISTOR CF 47K J 0W25
10 1142	R108	RESISTOR CF 3K3 J 0W25
10 1160	R109	RESISTOR CF 100K J 0W25
10 1151	R110	RESISTOR CF 18K J 0W25
10 1140	R111	RESISTOR CF 2K2 J 0W25
10 1151	R112	RESISTOR CF 18K J 0W25
10 1131	R113	RESISTOR CF 390E J 0W25
10 1126	R115	RESISTOR CF 150E J 0W25
10 1102	R116	RESISTOR CF 1E5 J 0W25
10 1140	R117	RESISTOR CF 2K2 J 0W25
10 1156	R118	RESISTOR CF 47K J 0W25
10 1134	R119	RESISTOR CF 680E J 0W25
10 1156	R120	RESISTOR CF 47K J 0W25
10 1159	R121	RESISTOR CF 82K J 0W25
10 1136	R122	RESISTOR CF 1K J 0W25
10 1165	R123	RESISTOR CF 270K J 0W25
10 1140	R125	RESISTOR CF 2K2 J 0W25
10 4170	R126	RESISTOR WW V 1K K 4W
10 1103	R127	RESISTOR CF 1E8 J 0W25
10 4656	R150	RESISTOR HV 1M2 J 0W50
10 41728	R151	RESISTOR WWFV 1E8 K 4W
10 4664	R152	RESISTOR HV 2M7 J 0W50
10 12484	R154	RESISTOR CF 10K J 0W50
10 2038	R155	RESISTOR CC 1K5 K 0W50
10 12364	R156	RESISTOR CF 1K J 0W50
10 12364	R157	RESISTOR CF 1K J 0W50
10 1262	R158	RESISTOR CF 150K J 0W50
10 12364	R159	RESISTOR CF 1K J 0W50
10 1116		RESISTOR CF 22E J 0W25
77 41106	T..1	TRANSFORMER SMP 67 CEBEC 40
77 3360	T.50	TRANSFORMER DRIVER HOR 34
77 41227	T.51	TRANSFORMER EHT MCD2640
13 1749	Z.40	DIODE ZENER 18V 0W5 C
76 1293		UN.I SENSE ABL40
31 3577	001.	CONNECTOR MT MOBTE P 2 10
31 5310	002.	CONNECTOR TAB MOBTE P 1 2,8
31 3454	003.	CONNECTOR TAB MOBTE P 1 4,8
31 3578	004.	CONNECTOR MT MOBTE P 4 7,5
31 32651	005.	FASTENER RESISTOR WW H20
31 3224	006.	FASTENER RESISTOR WW H25
31 4501	007.	FUSE 5X20 CLIPS
31 1035	008.	TUBE SOCKET SG PIL-S4
31 3249	009.	CONNECTOR IC FOBTE P18 7,5
31 3599	010.	CONNECTOR EDGE FOBTE P20 5
36 2122	012.	SCREW DIN7985 M 3 X 8 MP+
36 6102	013.	NUT DIN934 M 3 HEXAGONAL
80 0170	015.	FRAME LATH L 40
80 0171	016.	FRAME LATH R 40
72 1664	017.	FIXSTRIP FRAME 40
80 0169	018.	HEATSINK 40 FRAME DOWN
36 7454	019.	RIVET AL FE TAP/D/BS44 D3,2
80 0182	020.	HEATSINK 40 SMP
80 01881	021.	ISOLSHEET 15X24 40
80 01882	022.	ISOLSHEET 20X24 40
13 3058	023.	TRANSISTOR FIX CLIPS TO-220
13 3032	024.	TRANSISTOR FIX CLIPS TO-126
13 3039	0241	SPACER L 8 D 4 D1,2 CER
13 3062	025.	TRANSISTOR FIX CLIPS SOT-93
59 0217	027.	LABEL EHT ARROW
30 2102		CORE TUBE 1,3/4,95X40,5



FRAME ART. N° 76 1408	PCD 1640 LZ	FRAME ART. N° 76 14085	SCM 3240
FRAME ART. N° 76 14080	SCM 2840	FRAME ART. N° 76 14086	OCM 2840
FRAME ART. N° 76 14082	OCM 2840 DATA	FRAME ART. N° 76 14087	DCD 2840
FRAME ART. N° 76 14084	DCD 2740 DATA		

ITEM NO.	SIT.		DESCRIPTION
11 4103	C..1		CAPACITOR POMEFF 330K K 100
11 1418	C..2		CAPACITOR ELSN 22M T 350
11 4103	C..3		CAPACITOR POMEFF 330K K 100
11 1479	C..4		CAPACITOR ELPR 470M Z5 25
11 1479	C..5		CAPACITOR ELPR 470M Z5 25
11 1406	C..6		CAPACITOR ELSN 10M T 250
11 2833	C..7		CAPACITOR CE DI 4K7 S 400
11 1418	C..8		CAPACITOR ELSN 22M T 350
11 1479	C..9		CAPACITOR ELPR 470M Z5 25
11 1479	C.10		CAPACITOR ELPR 470M Z5 25
11 50051	C.13	⚠	CAPACITOR PPMEPO 2K2 J 1500
11 1487	C.14		CAPACITOR ELPR 100M Z5 40
11 1487	C.15		CAPACITOR ELPR 100M Z5 40
11 4427	C.16		CAPACITOR PO FF 22K M 250
11 1491	C.17		CAPACITOR ELPR 1M Z5 63
11 39622	C.18		CAPACITOR PETPFP 10K J 400
11 2234	C.19		CAPACITOR NPO MI 22P G5 63
11 4714	C.20	⚠	CAPACITOR POSAPO 470K M 250
11 4722	C.21		CAPACITOR CESA Y 2K2 M 400
11 4722	C.22		CAPACITOR CESA Y 2K2 M 400
11 2837	C.23		CAPACITOR CE DI 10K S 400
11 2837	C.24		CAPACITOR CE DI 10K S 400
11 1654	C.25		CAPACITOR ELRA 220M T 385
11 4722	C.26	⚠	CAPACITOR CESA Y 2K2 M 400
11 4166	C.27		CAPACITOR POMEFF 220K K 400
11 47105	C.28		CAPACITOR POSAPO 100K M AC250
11 1151	C.30		CAPACITOR ELAX 2200M T 16
11 1466	C.31		CAPACITOR ELPR 100M Z5 16
11 2774	C.32		CAPACITOR CE MI 100K U5 63
11 1531	C.40		CAPACITOR ELPRMI 10M M5 35
11 4162	C.41		CAPACITOR POMEFF 100K K 400
11 1213	C.42		CAPACITOR ELAX 4M7 T 100
11 11565	C.45		CAPACITOR ELAX 10M Z 25
11 1468	C.50		CAPACITOR ELPR 470M Z5 16
11 1184	C.51		CAPACITOR ELAX 4M7 Z 40
11 41051	C.52		CAPACITOR POMEFF 560K K 100
11 4120	C.53		CAPACITOR POMEFF 10K K 250
11 5932	C.54		CAPACITOR PP RA 4K7 J5 63
11 4120	C.55		CAPACITOR POMEFF 10K K 250
11 4102	C.56		CAPACITOR POMEFF 220K K 100
11 4124	C.57		CAPACITOR POMEFF 22K K 250
11 4134	C.58		CAPACITOR POMEFF 150K K 250
11 2831	C.59		CAPACITOR CE DI 3K3 S 400
11 4140	C.60		CAPACITOR POMEFF 470K K 250
11 1190	C.61		CAPACITOR ELAX 100M T 40
11 4442	C.62		CAPACITOR PO FF 470K K 250
11 45981	C.63		CAPACITOR PC PO 3M3 K 250
11 17851	C.64	*	CAPACITOR PPMEPO 15K J 1500
11 17891	C.65	*	CAPACITOR PPMEPO 22K J 750
11 4100	C.66		CAPACITOR POMEFF 100K K 100
11 4636	C.67		CAPACITOR HV AX 50K M 1600
11 1115	C.70		CAPACITOR ELAX 10M Z 6
11 4102	C.72		CAPACITOR POMEFF 220K K 100
11 3732	C100		CAPACITOR POME 470K K5 63
11 1193	C101		CAPACITOR ELAX 1000M T 40
11 3728	C102		CAPACITOR POME 220K K5 63
11 3732	C103		CAPACITOR POME 470K K5 63
11 4100	C104		CAPACITOR POMEFF 100K K 100
11 3724	C105		CAPACITOR POME 100K K5 63
11 1487	C106		CAPACITOR ELPR 100M Z5 40
11 1531	C107		CAPACITOR ELPRMI 10M M5 35
11 1510	C108		CAPACITOR ELPRMI 22M M5 25
11 37121	C109		CAPACITOR POME 10K K5 100
11 11841	C110		CAPACITOR ELAX 1M T 40
11 1147	C111		CAPACITOR ELAX 100M T 16
11 4124	C112		CAPACITOR POMEFF 22K K 250
11 4110	C113		CAPACITOR POMEFF 4M7 K 100
11 1164	C114		CAPACITOR ELAX 1000M T 25
11 3724	C115		CAPACITOR POME 100K K5 63
11 4602	C150		CAPACITOR POHVPO 47K M 1000

ITEM NO.	SIT.		DESCRIPTION
11 4162	C151		CAPACITOR POMEFF 100K K 400
11 1716			CAPACITOR CE 680P 1000
13 1637	D..1		DIODE BA158 SWITCH
13 1921	D..2		DIODE BY299 RECTIFIER
13 1637	D..3		DIODE BA158 SWITCH
13 1924	D..4		DIODE BYW95C BYX55-6 RECTIFIER
13 1924	D..5		DIODE BYW95C BYX55-6 RECTIFIER
13 1646	D..6		DIODE 1N4007 RECTIFIER
13 1637	D..7		DIODE BA158 SWITCH
13 1637	D..8		DIODE BA158 SWITCH
13 1646	D..9		DIODE 1N4007 RECTIFIER
13 19025	D.10		DIODE BY255 RECTIFIER
13 19025	D.11		DIODE BY255 RECTIFIER
13 19025	D.12		DIODE BY255 RECTIFIER
13 19025	D.13		DIODE BY255 RECTIFIER
13 1621	D.14		DIODE 1N4148 SWITCH
13 1621	D.40		DIODE 1N4148 SWITCH
13 1637	D.41		DIODE BA158 SWITCH
13 1621	D.42		DIODE 1N4148 SWITCH
13 1637	D.50		DIODE BA158 SWITCH
13 2070	D.51		DIODE BG2097-643-415 CASCADE
13 1942	D.52		DIODE BY448 RECTIFIER
13 1912	D.53		DIODE BYV95C BY210 RECTIFIER
13 1644	D100		DIODE 1N4001 RECTIFIER
13 1621	D101		DIODE 1N4148 SWITCH
13 1621	D102		DIODE 1N4148 SWITCH
13 1637			DIODE BA158 SWITCH
13 1771			DIODE ZENER150V 0W5 B
31 41041	F..1		FUSE 4A 5X20 SLOW
31 41041	F..2		FUSE 4A 5X20 SLOW
31 4102	F..3		FUSE 1A250 5X20 FAST
13 4010	I..1		INTEGRATED CIRCUIT 7815
13 2787	I..2		INTEGRATED CIRCUIT 4601 TDA
13 2762	I.50		INTEGRATED CIRCUIT 2595 TDA
13 2790	I100		INTEGRATED CIRCUIT 2653A TDA
77 3028	L..1		COIL CHOKE SMPOWER31
77 3028	L..2		COIL CHOKE SMPOWER31
30 2108	L..3		CORE TUBE 1,3/3,5X3
77 3309	L..4		COIL CHOKE MAINS 32
77 4156	L.50		COIL LINEARITY HOR LZ PCD1640
77 4157	L100	*	COIL BRIDGE LZ PCD1640
10 6107	P..1		TRIMPOT CAMH 10K M 0W05
10 6109	P.50		TRIMPOT CAMH 47K M 0W05
10 6109	P.51		TRIMPOT CAMH 47K M 0W05
10 52096	PTC1		RESISTOR PTC 220V PHILIPS
10 6109	P100		TRIMPOT CAMH 47K M 0W05
10 6104	P101		TRIMPOT CAMH 1K M 0W05
10 6101	P102		TRIMPOT CAMH 100E M 0W05
10 6105	P103		TRIMPOT CAMH 2K2 M 0W05
10 6105	P104		TRIMPOT CAMH 2K2 M 0W05
10 6109	P105		TRIMPOT CAMH 47K M 0W05
10 6111	P106		TRIMPOT CAMH 100K M 0W05
10 6315	P150		TRIMPOT CASH 2M2 M 0W15
71 6345	PC..		PC 40 FRAME SUP 2 761372
13 25095	Q..1		TRANSISTOR BU508A
13 1413	Q.40		TRANSISTOR BC557 ,BC307
13 14295	Q.50		TRANSISTOR BC549B,
13 1471	Q.51		TRANSISTOR BF458
13 2906	Q.52		TRANSISTOR BUW11A
13 1418	Q100		TRANSISTOR BC559 ,BC309
13 14072	Q101		TRANSISTOR BC547A,BC237A
13 2570	Q102		TRANSISTOR BDX77,BD709

ITEM NO.	SIT.		DESCRIPTION			
10 1206	R..2		RESISTOR CF	3E3	J	0W50
10 11907	R..3		RESISTOR CFF	E10	J	0W40
10 1358	R..4		RESISTOR CF	68K	J	1W
10 1244	R..5		RESISTOR CF	4K7	J	0W50
10 1359	R..6		RESISTOR CF	82K	J	1W
10 11907	R..7	⚠	RESISTOR CFF	E10	J	0W40
10 1217	R..8		RESISTOR CF	27E	J	0W50
10 3254	R..9		RESISTOR MO	33K	J	1W50
10 1100	R.10		RESISTOR CF	1E	J	0W25
10 1100	R.11		RESISTOR CF	1E	J	0W25
10 1160	R.12		RESISTOR CF	100K	J	0W25
10 4268	R.13		RESISTOR WW V	33E	K	7W
10 1152	R.14		RESISTOR CF	22K	J	0W25
10 1148	R.15		RESISTOR CF	10K	J	0W25
10 1265	R.16		RESISTOR CF	270K	J	0W50
10 1139	R.17		RESISTOR CF	1K8	J	0W25
10 4407	R.18		RESISTOR WW V	3E3	K	11W
10 1267	R.19		RESISTOR CF	390K	J	0W50
10 4670	R.20		RESISTOR HV	4M7	J	0W50
10 4670	R.21		RESISTOR HV	4M7	J	0W50
10 13997	R.26		RESISTOR CFF	E10	K	1W
10 11907	R.27	⚠	RESISTOR CFF	E10	J	0W40
10 1131	R.41		RESISTOR CF	390E	J	0W25
10 1136	R.42		RESISTOR CF	1K	J	0W25
10 1148	R.43		RESISTOR CF	10K	J	0W25
10 1144	R.44		RESISTOR CF	4K7	J	0W25
10 1150	R.45		RESISTOR CF	15K	J	0W25
10 1150	R.46		RESISTOR CF	15K	J	0W25
10 1163	R.47		RESISTOR CF	180K	J	0W25
10 1144	R.48		RESISTOR CF	4K7	J	0W25
10 1121	R.50		RESISTOR CF	56E	J	0W25
10 1134	R.51		RESISTOR CF	680E	J	0W25
10 1144	R.52		RESISTOR CF	4K7	J	0W25
10 1135	R.53		RESISTOR CF	820E	J	0W25
10 1160	R.54		RESISTOR CF	100K	J	0W25
10 1161	R.55		RESISTOR CF	120K	J	0W25
10 1149	R.56		RESISTOR CF	12K	J	0W25
10 1161	R.57		RESISTOR CF	120K	J	0W25
10 1136	R.58		RESISTOR CF	1K	J	0W25
10 4656	R.59		RESISTOR HV	1M2	J	0W50
10 1136	R.60		RESISTOR CF	1K	J	0W25
10 1132	R.61		RESISTOR CF	470E	J	0W25
10 3660	R.62		RESISTOR WW H	1K	K	4W
10 3226	R.63		RESISTOR MO	150E	J	1W50
10 3611	R.64		RESISTOR WW H	0E82	K	4W
10 1120	R.65		RESISTOR CF	47E	J	0W25
10 14675	R.66	*	RESISTOR MF	390K	J	1W50
10 14675	R.67	*	RESISTOR MF	390K	J	1W50
10 1136	R.68		RESISTOR CF	1K	J	0W25
10 4169	R.69		RESISTOR WW V	1K5	K	4W
10 1124	R.70		RESISTOR CF	100E	J	0W25
10 1164	R.72		RESISTOR CF	220K	J	0W25
10 1164	R.73		RESISTOR CF	220K	J	0W25
10 1136	R.74		RESISTOR CF	1K	J	0W25
10 1124	R.75		RESISTOR CF	100E	J	0W25
10 1112	R.76		RESISTOR CF	10E	J	0W25
10 1168	R.91		RESISTOR CF	470K	J	0W25
10 1135	R.92		RESISTOR CF	820E	J	0W25
10 1129	R.93		RESISTOR CF	270E	J	0W25
10 1136	R.94		RESISTOR CF	1K	J	0W25
10 1208	R.95		RESISTOR CF	4E7	J	0W50
10 1142	R.96		RESISTOR CF	3K3	J	0W25
10 1133	R.97		RESISTOR CF	560E	J	0W25
10 1136	R.98		RESISTOR CF	1K	J	0W25
10 1144	R100		RESISTOR CF	4K7	J	0W25
10 1168	R101		RESISTOR CF	470K	J	0W25
10 1309	R102		RESISTOR CF	5E6	J	1W
10 1159	R103		RESISTOR CF	82K	J	0W25
10 1149	R104		RESISTOR CF	12K	J	0W25
10 1164	R105		RESISTOR CF	220K	J	0W25
10 1156	R106		RESISTOR CF	47K	J	0W25
10 1156	R107		RESISTOR CF	47K	J	0W25
10 1142	R108		RESISTOR CF	3K3	J	0W25
10 1160	R109		RESISTOR CF	100K	J	0W25
10 1151	R110		RESISTOR CF	18K	J	0W25
10 1140	R111		RESISTOR CF	2K2	J	0W25
10 1151	R112		RESISTOR CF	18K	J	0W25
10 1131	R113		RESISTOR CF	390E	J	0W25
10 1232	R114		RESISTOR CF	470E	J	0W50
10 1126	R115		RESISTOR CF	150E	J	0W25
10 1100	R116		RESISTOR CF	1E	J	0W25
10 1132	R117		RESISTOR CF	470E	J	0W25
10 1156	R118		RESISTOR CF	47K	J	0W25
10 1134	R119		RESISTOR CF	680E	J	0W25
10 1156	R120		RESISTOR CF	47K	J	0W25
10 1158	R121		RESISTOR CF	68K	J	0W25
10 1136	R122		RESISTOR CF	1K	J	0W25
10 1163	R123		RESISTOR CF	180K	J	0W25
10 1140	R125		RESISTOR CF	2K2	J	0W25
10 4170	R126		RESISTOR WW V	1K	K	4W
10 1100	R127		RESISTOR CF	1E	J	0W25
10 41748	R151		RESISTOR WWFV	4E7	K	3W
10 1277	R152		RESISTOR CF	2M7	K	0W50
10 1248	R154		RESISTOR CF	10K	J	0W50
10 1238	R155		RESISTOR CF	1K5	J	0W50
10 1236	R156		RESISTOR CF	1K	J	0W50
10 1236	R157		RESISTOR CF	1K	J	0W50
10 1262	R158		RESISTOR CF	150K	J	0W50
10 1236	R159		RESISTOR CF	1K	J	0W50
10 1124			RESISTOR CF	100E	J	0W25
10 4656			RESISTOR HV	1M2	J	0W50
77 4147	T..1		TRANSFORMER SMP LZ PCD1640			
77 4148	T.50		TRANSFORMER HOR DRI LZ PCD1640			
77 4181	T.51		TRANSFORMER EHT LZ PCD1640			
13 1749	Z.40		DIODE ZENER 18V 0W5 C			
76 12937			UN.I SENSE ABL40 PCD QUAD HR			
76 1417			UN.SCAN+SHIFT PCD1640 LZ			
31 3577	001.		CONNECTOR MT MOBTE P 2 10			
31 5310	002.		CONNECTOR TAB MOBTE P 1 2,8			
31 3454	003.		CONNECTOR TAB MOBTE P 1 4,8			
31 3578	004.		CONNECTOR MT MOBTE P 4 7,5			
31 32651	005.		RESISTOR WW V HOLDER H20			
31 3224	006.		RESISTOR WW V HOLDER H25			
31 4501	007.		FUSE 5X20 CLIPS			
31 1034	008.		TUBE SOCKET SG 11-13KV			
31 3249	009.		CONNECTOR IC FOBTE P18 7,5			
31 3599	010.		CONNECTOR EDGE FOBTE P20 5			
36 2122	012.		SCREW DIN7985 M 3 X 8 MP+			
36 6102	013.		NUT DIN934 M 3 HEXAGONAL			
80 0552	015.		FRAME LATH L TCT1640			
80 0553	016.		FRAME LATH R TCT1640			
72 1664	017.		FIXSTRIP FRAME 40			
80 0551	018.		HEATSINK TCT FRAME DOWN			
36 7454	019.		RIVET AL FE TAP/D/BS44 D3,2			
80 0182	020.		HEATSINK 40 SMP			
80 01881	021.		ISOLSHEET 15X24 40			
80 01882	022.		ISOLSHEET 20X24 40			
13 3058	023.		TRANSISTOR FIX CLIPS TO-220			
13 3032	024.		TRANSISTOR FIX CLIPS TO-126			
13 3039	0241		SPACER L 8 D 4 D1,2 CER			
13 3062	025.		TRANSISTOR FIX CLIPS SOT-93			
80 0218	026.		FIX MAINS CORD 40			
36 7454	0261		RIVET AL FE TAP/D/BS44 D3,2			
59 0217	027.		LABEL EHT ARROW			
34 2060	1000	D	WIRE 24X0,20 BLACK			
34 7011	1000	D	SLEEVE OIL 3 RED			

ITEM NO.	SIT.	DESCRIPTION
13 1646	D..1	DIODE 1N4007 RECTIFIER
13 1646	D..2	DIODE 1N4007 RECTIFIER
13 1621	D..3	DIODE 1N4148 SWITCH
10 6109	P..2	TRIMPOT CAMH 47K M 0W05
10 6114	P..3	TRIMPOT CAMH 1M M 0W05
10 6511	P..4	TRIMPOT WW HK 100E K 2W
71 5864	PC..	PC 40 SCANN+SHIFT 761185
13 14295	Q..1	TRANSISTOR BC549B,

ITEM NO.	SIT.	DESCRIPTION
10 1160	R..2	RESISTOR CF 100K J 0W25
10 1144	R..3	RESISTOR CF 4K7 J 0W25
10 1168	R..4	RESISTOR CF 470K J 0W25
77 4158	T..1	COIL SHIFT HOR LZ PCD1640
31 5310	001.	CONNECTOR TAB MOBTE P 1 2,8
34 8019	002.	WIRE TIE L100

ITEM NO.	SIT.	DESCRIPTION
11 4103	C..1	CAPACITOR POMEFF 330K K 100
11 1418	C..2	CAPACITOR ELSN 22M T 350
11 4103	C..3	CAPACITOR POMEFF 330K K 100
11 1479	C..4	CAPACITOR ELPR 470M Z5 25
11 1479	C..5	CAPACITOR ELPR 470M Z5 25
11 1406	C..6	CAPACITOR ELSN 10M T 250
11 2833	C..7	CAPACITOR CE DI 4K7 S 400
11 1418	C..8	CAPACITOR ELSN 22M T 350
11 1479	C.10	CAPACITOR ELPR 470M Z5 25
11 50051	C.13	CAPACITOR PPMEPO 2K2 J 1500
11 1487	C.14	CAPACITOR ELPR 100M Z5 40
11 1487	C.15	CAPACITOR ELPR 100M Z5 40
11 4427	C.16	CAPACITOR PO FF 22K M 250
11 1491	C.17	CAPACITOR ELPR 1M Z5 63
11 39622	C.18	CAPACITOR PETPFP 10K J 400
11 2234	C.19	CAPACITOR NPO MI 22P G5 63
11 4714	C.20	CAPACITOR POSAPO 470K M 250
11 4722	C.21	CAPACITOR CESA Y 2K2 M 400
11 4722	C.22	CAPACITOR CESA Y 2K2 M 400
11 2837	C.23	CAPACITOR CE DI 10K S 400
11 2837	C.24	CAPACITOR CE DI 10K S 400
11 1654	C.25	CAPACITOR ELRA 220M T 385
11 4722	C.26	CAPACITOR CESA Y 2K2 M 400
11 4166	C.27	CAPACITOR POMEFF 220K K 400
11 47105	C.28	CAPACITOR POSAPO 100K M AC250
11 1151	C.30	CAPACITOR ELAX 2200M T 16
11 1466	C.31	CAPACITOR ELPR 100M Z5 16
11 2774	C.32	CAPACITOR CE MI 100K U5 63
11 1531	C.40	CAPACITOR ELPRMI 10M M5 35
11 4162	C.41	CAPACITOR POMEFF 100K K 400
11 1213	C.42	CAPACITOR ELAX 4M7 T 100
11 1468	C.50	CAPACITOR ELPR 470M Z5 16
11 1184	C.51	CAPACITOR ELAX 4M7 Z 40
11 41051	C.52	CAPACITOR POMEFF 560K K 100
11 4120	C.53	CAPACITOR POMEFF 10K K 250
11 5932	C.54	CAPACITOR PP RA 4K7 J5 63
11 4120	C.55	CAPACITOR POMEFF 10K K 250
11 4102	C.56	CAPACITOR POMEFF 220K K 100
11 4124	C.57	CAPACITOR POMEFF 22K K 250
11 4134	C.58	CAPACITOR POMEFF 150K K 250
11 2833	C.59	CAPACITOR CE DI 4K7 S 400
11 4140	C.60	CAPACITOR POMEFF 470K K 250
11 1190	C.61	CAPACITOR ELAX 100M T 40
11 4442	C.62	CAPACITOR PO FF 470K K 250
11 4590	C.63	CAPACITOR PP PO 330K K 250
11 1780	C.64	CAPACITOR PPMEPO 9K1 J 1500
11 17891	C.65	CAPACITOR PPMEPO 22K J 750
11 4100	C.66	CAPACITOR POMEFF 100K K 100
11 4636	C.67	CAPACITOR HV AX 50K M 1600
11 1115	C.70	CAPACITOR ELAX 10M Z 6
11 4102	C.72	CAPACITOR POMEFF 220K K 100
11 3732	C100	CAPACITOR POME 470K K5 63
11 1193	C101	CAPACITOR ELAX 1000M T 40
11 3728	C102	CAPACITOR POME 220K K5 63
11 3732	C103	CAPACITOR POME 470K K5 63
11 4100	C104	CAPACITOR POMEFF 100K K 100
11 3724	C105	CAPACITOR POME 100K K5 63
11 1487	C106	CAPACITOR ELPR 100M Z5 40
11 1531	C107	CAPACITOR ELPRMI 10M M5 35
11 1548	C108	CAPACITOR ELPRMI 2M2 M5 50
11 11575	C109	CAPACITOR ELAX 22M Z 25
11 11841	C110	CAPACITOR ELAX 1M T 40
11 1147	C111	CAPACITOR ELAX 100M T 16
11 4124	C112	CAPACITOR POMEFF 22K K 250
11 4110	C113	CAPACITOR POMEFF 4M7 K 100
11 1164	C114	CAPACITOR ELAX 1000M T 25
11 3724	C115	CAPACITOR POME 100K K5 63
11 4602	C150	CAPACITOR POHVPO 47K M 1000
11 4162	C151	CAPACITOR POMEFF 100K K 400

ITEM NO.	SIT.	DESCRIPTION
13 1637	D..1	DIODE BA158 SWITCH
13 1921	D..2	DIODE BY299 RECTIFIER
13 1924	D..4	DIODE BYW95C BYX55-6 RECTIFIER
13 1924	D..5	DIODE BYW95C BYX55-6 RECTIFIER
13 1646	D..6	DIODE 1N4007 RECTIFIER
13 1637	D..7	DIODE BA158 SWITCH
13 1637	D..8	DIODE BA158 SWITCH
13 1646	D..9	DIODE 1N4007 RECTIFIER
13 19025	D.10	DIODE BY255 RECTIFIER
13 19025	D.11	DIODE BY255 RECTIFIER
13 19025	D.12	DIODE BY255 RECTIFIER
13 19025	D.13	DIODE BY255 RECTIFIER
13 1621	D.14	DIODE 1N4148 SWITCH
13 1621	D.40	DIODE 1N4148 SWITCH
13 1637	D.41	DIODE BA158 SWITCH
13 1621	D.42	DIODE 1N4148 SWITCH
13 1637	D.50	DIODE BA158 SWITCH
13 2068	D.51	DIODE TVK-196-17 CASCADE
13 1942	D.52	DIODE BY448 RECTIFIER
13 1921	D.53	DIODE BY299 RECTIFIER
13 1921	D.54	DIODE BY299 RECTIFIER
13 1921	D.55	DIODE BY299 RECTIFIER
13 1637	D.56	DIODE BA158 SWITCH
13 1644	D100	DIODE 1N4001 RECTIFIER
13 1621	D101	DIODE 1N4148 SWITCH
13 1621	D102	DIODE 1N4148 SWITCH
13 1754		DIODE ZENER 3V3 0W5 C
31 41041	F..1	FUSE 4A 5X20 SLOW
31 41041	F..2	FUSE 4A 5X20 SLOW
31 4102	F..3	FUSE 1A250 5X20 FAST
13 4010	I..1	INTEGRATED CIRCUIT 7815
13 2787	I..2	INTEGRATED CIRCUIT 4601 TDA
13 2762	I.50	INTEGRATED CIRCUIT 2595 TDA
13 2790	I100	INTEGRATED CIRCUIT 2653A TDA
77 3028	L..1	COIL CHOKE SMPOWER31
77 3028	L..2	COIL CHOKE SMPOWER31
30 2108	L..3	CORE TUBE 1,3/3,5X3
77 3309	L..4	COIL CHOKE MAINS 32
71 2604	L..5	CORE FERROX D2/5L10
30 6407	L.50	COIL LINEARITY 4042/08A 32
77 3363	L100	COIL BRIDGE 34GS
10 6107	P..1	TRIMPOT CAMH 10K M 0W05
10 6109	P.50	TRIMPOT CAMH 47K M 0W05
10 6109	P.51	TRIMPOT CAMH 47K M 0W05
10 52096	PTC1	RESISTOR PTC 220V PHILIPS
10 6109	P100	TRIMPOT CAMH 47K M 0W05
10 6104	P101	TRIMPOT CAMH 1K M 0W05
10 6101	P102	TRIMPOT CAMH 100E M 0W05
10 6105	P103	TRIMPOT CAMH 2K2 M 0W05
10 6105	P104	TRIMPOT CAMH 2K2 M 0W05
10 6109	P105	TRIMPOT CAMH 47K M 0W05
10 6111	P106	TRIMPOT CAMH 100K M 0W05
10 6315	P150	TRIMPOT CASH 2M2 M 0W15
71 6345	PC..	PC 40 FRAME SUP 2 761372
13 25095	Q..1	TRANSISTOR BU508A
13 1413	Q.40	TRANSISTOR BC557 ,BC307
13 14295	Q.50	TRANSISTOR BC549B,
13 1471	Q.51	TRANSISTOR BF458
13 25095	Q.52	TRANSISTOR BU508A
13 1418	Q100	TRANSISTOR BC559 ,BC309
13 14072	Q101	TRANSISTOR BC547A,BC237A
13 2570	Q102	TRANSISTOR BDX77,BD709

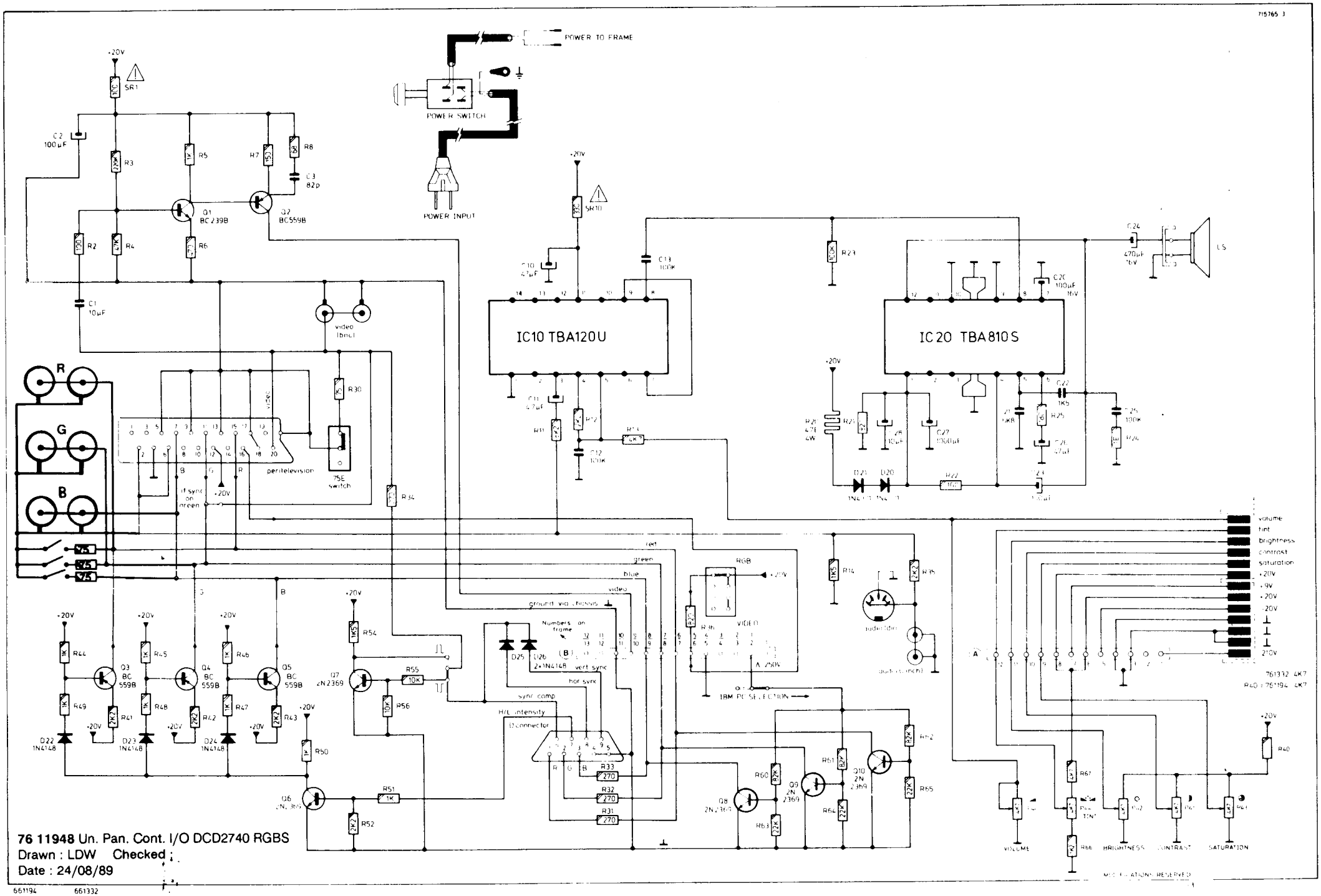
ITEM NO.	SIT.	DESCRIPTION
10 4415	R..1	RESISTOR WW V 15E K 11W
10 1206	R..2	RESISTOR CF 3E3 J 0W50
10 11947	R..3	RESISTOR CFF E47 K 0W40
10 1358	R..4	RESISTOR CF 68K J 1W
10 1244	R..5	RESISTOR CF 4K7 J 0W50
10 1359	R..6	RESISTOR CF 82K J 1W
10 11907	R..7	RESISTOR CFF E10 J 0W40
10 1217	R..8	RESISTOR CF 27E J 0W50
10 3254	R..9	RESISTOR MO 33K J 1W50
10 1100	R.10	RESISTOR CF 1E J 0W25
10 1100	R.11	RESISTOR CF 1E J 0W25
10 1160	R.12	RESISTOR CF 100K J 0W25
10 4268	R.13	RESISTOR WW V 33E K 7W
10 1152	R.14	RESISTOR CF 22K J 0W25
10 1148	R.15	RESISTOR CF 10K J 0W25
10 1265	R.16	RESISTOR CF 270K J 0W50
10 1139	R.17	RESISTOR CF 1K8 J 0W25
10 4407	R.18	RESISTOR WW V 3E3 K 11W
10 1267	R.19	RESISTOR CF 390K J 0W50
10 4670	R.20	RESISTOR HV 4M7 J 0W50
10 4670	R.21	RESISTOR HV 4M7 J 0W50
10 1155	R.22	RESISTOR CF 39K J 0W25
10 1157	R.23	RESISTOR CF 56K J 0W25
10 1143	R.24	RESISTOR CF 3K9 J 0W25
10 1253	R.25	RESISTOR CF 27K J 0W50
10 13997	R.26	RESISTOR CFF E10 K 1W
10 1130	R.28	RESISTOR CF 330E J 0W25
10 1136	R.41	RESISTOR CF 1K J 0W25
10 1131	R.42	RESISTOR CF 390E J 0W25
10 1148	R.43	RESISTOR CF 10K J 0W25
10 1144	R.44	RESISTOR CF 4K7 J 0W25
10 1162	R.47	RESISTOR CF 150K J 0W25
10 1145	R.48	RESISTOR CF 5K6 J 0W25
10 1121	R.50	RESISTOR CF 56E J 0W25
10 1134	R.51	RESISTOR CF 680E J 0W25
10 1144	R.52	RESISTOR CF 4K7 J 0W25
10 1135	R.53	RESISTOR CF 820E J 0W25
10 1160	R.54	RESISTOR CF 100K J 0W25
10 1161	R.55	RESISTOR CF 120K J 0W25
10 1149	R.56	RESISTOR CF 12K J 0W25
10 1161	R.57	RESISTOR CF 120K J 0W25
10 1136	R.58	RESISTOR CF 1K J 0W25
10 4656	R.59	RESISTOR HV 1M2 J 0W50
10 1136	R.60	RESISTOR CF 1K J 0W25
10 1132	R.61	RESISTOR CF 470E J 0W25
10 4170	R.62	RESISTOR WW V 1K K 4W
10 4245	R.63	RESISTOR WW V 2K7 K 7W
10 4172	R.64	RESISTOR WW V 1E8 K 4W
10 1120	R.65	RESISTOR CF 47E J 0W25
10 14675	R.66	RESISTOR MF 390K J 1W50
10 14675	R.67	RESISTOR MF 390K J 1W50
10 1130	R.68	RESISTOR CF 330E J 0W25
10 4169	R.69	RESISTOR WW V 1K5 K 4W
10 1124	R.70	RESISTOR CF 100E J 0W25
10 1164	R.72	RESISTOR CF 220K J 0W25
10 1164	R.73	RESISTOR CF 220K J 0W25
10 1136	R.74	RESISTOR CF 1K J 0W25
10 1124	R.75	RESISTOR CF 100E J 0W25
10 1112	R.76	RESISTOR CF 10E J 0W25
10 1168	R.91	RESISTOR CF 470K J 0W25
10 1135	R.92	RESISTOR CF 820E J 0W25
10 1129	R.93	RESISTOR CF 270E J 0W25
10 1136	R.94	RESISTOR CF 1K J 0W25
10 1208	R.95	RESISTOR CF 4E7 J 0W50
10 1142	R.96	RESISTOR CF 3K3 J 0W25
10 1133	R.97	RESISTOR CF 560E J 0W25
10 1136	R.98	RESISTOR CF 1K J 0W25
10 1144	R100	RESISTOR CF 4K7 J 0W25
10 1168	R101	RESISTOR CF 470K J 0W25
10 1309	R102	RESISTOR CF 5E6 J 1W
10 1159	R103	RESISTOR CF 82K J 0W25
10 1149	R104	RESISTOR CF 12K J 0W25
10 1164	R105	RESISTOR CF 220K J 0W25
10 1156	R106	RESISTOR CF 47K J 0W25
10 1156	R107	RESISTOR CF 47K J 0W25
10 1142	R108	RESISTOR CF 3K3 J 0W25
10 1160	R109	RESISTOR CF 100K J 0W25
10 1151	R110	RESISTOR CF 18K J 0W25
10 1140	R111	RESISTOR CF 2K2 J 0W25
10 1151	R112	RESISTOR CF 18K J 0W25
10 1131	R113	RESISTOR CF 390E J 0W25
10 1228	R113	RESISTOR CF 220E J 0W50
10 1126	R115	RESISTOR CF 150E J 0W25
10 1102	R116	RESISTOR CF 1E5 J 0W25
10 1140	R117	RESISTOR CF 2K2 J 0W25
10 1156	R118	RESISTOR CF 47K J 0W25
10 1134	R119	RESISTOR CF 680E J 0W25
10 1156	R120	RESISTOR CF 47K J 0W25
10 1159	R121	RESISTOR CF 82K J 0W25
10 1136	R122	RESISTOR CF 1K J 0W25
10 1165	R123	RESISTOR CF 270K J 0W25
10 1140	R125	RESISTOR CF 2K2 J 0W25
10 4170	R126	RESISTOR WW V 1K K 4W
10 1103	R127	RESISTOR CF 1E8 J 0W25
10 4656	R150	RESISTOR HV 1M2 J 0W50
10 41728	R151	RESISTOR WWFV 1E8 K 4W
10 4664	R152	RESISTOR HV 2M7 J 0W50
10 12484	R154	RESISTOR CF 10K J 0W50
10 2038	R155	RESISTOR CC 1K5 K 0W50
10 12364	R156	RESISTOR CF 1K J 0W50
10 12364	R157	RESISTOR CF 1K J 0W50
10 1262	R158	RESISTOR CF 150K J 0W50
10 12364	R159	RESISTOR CF 1K J 0W50
10 1124		RESISTOR CF 100E J 0W25
10 1129		RESISTOR CF 270E J 0W25
10 1160		RESISTOR CF 100K J 0W25
77 41106	T..1	TRANSFORMER SMP 67 CEBEC 40
77 3360	T.50	TRANSFORMER DRIVER HOR 34
77 41227	T.51	TRANSFORMER EHT MCD2640
13 1749	Z.40	DIODE ZENER 18V 0W5 C
76 1293		UN.I SENSE ABL40
76 1457		UN.FLYBACKPULSE SHORTER 40
31 3577	001.	CONNECTOR MT MOBTE P 2 10
31 5310	002.	CONNECTOR TAB MOBTE P 1 2,8
31 3454	003.	CONNECTOR TAB MOBTE P 1 4,8
31 32651	005.	FASTENER RESISTOR WW H20
31 3224	006.	FASTENER RESISTOR WW H25
31 4501	007.	FUSE 5X20 CLIPS
31 1035	008.	TUBE SOCKET SG PIL-S4
31 3249	009.	CONNECTOR IC FOBTE P18 7,5
31 3599	010.	CONNECTOR EDGE FOBTE P20 5
36 2122	012.	SCREW DIN7985 M 3 X 8 MP+
36 6102	013.	NUT DIN934 M 3 HEXAGONAL
80 0170	015.	FRAME LATH L 40
80 0171	016.	FRAME LATH R 40
72 1664	017.	FIXSTRIP FRAME 40
80 0169	018.	HEATSINK 40 FRAME DOWN
36 7454	019.	RIVET AL FE TAP/D/BS44 D3,2
80 0182	020.	HEATSINK 40 SMP
80 01881	021.	ISOLSHEET 15X24 40
80 01882	022.	ISOLSHEET 20X24 40
13 3058	023.	TRANSISTOR FIX CLIPS TO-220
13 3032	024.	TRANSISTOR FIX CLIPS TO-126
13 3039	0241	SPACER L 8 D 4 D1,2 CER
13 3062	025.	TRANSISTOR FIX CLIPS SOT-93
59 0217	027.	LABEL EHT ARROW

ITEM NO.	SIT.	DESCRIPTION
11 4103	C..1	CAPACITOR POMEFF 330K K 100
11 1418	C..2	CAPACITOR ELSN 22M T 350
11 4103	C..3	CAPACITOR POMEFF 330K K 100
11 1479	C..4	CAPACITOR ELPR 470M Z5 25
11 1479	C..5	CAPACITOR ELPR 470M Z5 25
11 1406	C..6	CAPACITOR ELSN 10M T 250
11 2833	C..7	CAPACITOR CE DI 4K7 S 400
11 1418	C..8	CAPACITOR ELSN 22M T 350
11 1479	C.10	CAPACITOR ELPR 470M Z5 25
11 2825	C.11	CAPACITOR CE DI 1K S 400
11 50051	C.13	CAPACITOR PPMEPO 2K2 J 1500
11 1487	C.14	CAPACITOR ELPR 100M Z5 40
11 1487	C.15	CAPACITOR ELPR 100M Z5 40
11 4427	C.16	CAPACITOR PO FF 22K M 250
11 1491	C.17	CAPACITOR ELPR 1M Z5 63
11 39622	C.18	CAPACITOR PETPFP 10K J 400
11 2234	C.19	CAPACITOR NPO MI 22P G5 63
11 4714	C.20	CAPACITOR POSAPO 470K M 250
11 4722	C.21	CAPACITOR CESA Y 2K2 M 400
11 4722	C.22	CAPACITOR CESA Y 2K2 M 400
11 2837	C.23	CAPACITOR CE DI 10K S 400
11 2837	C.24	CAPACITOR CE DI 10K S 400
11 1654	C.25	CAPACITOR ELRA 220M T 385
11 4722	C.26	CAPACITOR CESA Y 2K2 M 400
11 4166	C.27	CAPACITOR POMEFF 220K K 400
11 47105	C.28	CAPACITOR POSAPO 100K M AC250
11 1151	C.30	CAPACITOR ELAX 2200M T 16
11 1466	C.31	CAPACITOR ELPR 100M Z5 16
11 2774	C.32	CAPACITOR CE MI 100K U5 63
11 1531	C.40	CAPACITOR ELPRMI 10M M5 35
11 4162	C.41	CAPACITOR POMEFF 100K K 400
11 1213	C.42	CAPACITOR ELAX 4M7 T 100
11 1468	C.50	CAPACITOR ELPR 470M Z5 16
11 1184	C.51	CAPACITOR ELAX 4M7 Z 40
11 41051	C.52	CAPACITOR POMEFF 560K K 100
11 4120	C.53	CAPACITOR POMEFF 10K K 250
11 5932	C.54	CAPACITOR PP RA 4K7 J5 63
11 4120	C.55	CAPACITOR POMEFF 10K K 250
11 4102	C.56	CAPACITOR POMEFF 220K K 100
11 4124	C.57	CAPACITOR POMEFF 22K K 250
11 4134	C.58	CAPACITOR POMEFF 150K K 250
11 2833	C.59	CAPACITOR CE DI 4K7 S 400
11 4140	C.60	CAPACITOR POMEFF 470K K 250
11 1190	C.61	CAPACITOR ELAX 100M T 40
11 4442	C.62	CAPACITOR PO FF 470K K 250
11 4588	C.63	CAPACITOR PP PO 220K K 250
11 1780	C.64	CAPACITOR PPMEPO 9K1 J 1500
11 17891	C.65	CAPACITOR PPMEPO 22K J 750
11 4100	C.66	CAPACITOR POMEFF 100K K 100
11 4636	C.67	CAPACITOR HV AX 50K M 1600
11 1115	C.70	CAPACITOR ELAX 10M Z 6
11 4102	C.72	CAPACITOR POMEFF 220K K 100
11 3732	C100	CAPACITOR POME 470K K5 63
11 1193	C101	CAPACITOR ELAX 1000M T 40
11 3728	C102	CAPACITOR POME 220K K5 63
11 3732	C103	CAPACITOR POME 470K K5 63
11 4100	C104	CAPACITOR POMEFF 100K K 100
11 3724	C105	CAPACITOR POME 100K K5 63
11 1487	C106	CAPACITOR ELPR 100M Z5 40
11 1531	C107	CAPACITOR ELPRMI 10M M5 35
11 1549	C108	CAPACITOR ELPRMI 3M3 M5 50
11 11575	C109	CAPACITOR ELAX 22M Z 25
11 11841	C110	CAPACITOR ELAX 1M T 40
11 1147	C111	CAPACITOR ELAX 100M T 16
11 4124	C112	CAPACITOR POMEFF 22K K 250
11 4110	C113	CAPACITOR POMEFF 4M7 K 100
11 1164	C114	CAPACITOR ELAX 1000M T 25
11 3724	C115	CAPACITOR POME 100K K5 63
11 4602	C150	CAPACITOR POHVPO 47K M 1000
11 4162	C151	CAPACITOR POMEFF 100K K 400

ITEM NO.	SIT.	DESCRIPTION
11 1716		CAPACITOR CE 680P 1000
11 4188		CAPACITOR POMEFF 220K K 630
13 1637	D..1	DIODE BA158 SWITCH
13 1921	D..2	DIODE BY299 RECTIFIER
13 1924	D..4	DIODE BYW95C BYX55-6 RECTIFIER
13 1924	D..5	DIODE BYW95C BYX55-6 RECTIFIER
13 1646	D..6	DIODE 1N4007 RECTIFIER
13 1637	D..7	DIODE BA158 SWITCH
13 1637	D..8	DIODE BA158 SWITCH
13 1646	D..9	DIODE 1N4007 RECTIFIER
13 19025	D.10	DIODE BY255 RECTIFIER
13 19025	D.11	DIODE BY255 RECTIFIER
13 19025	D.12	DIODE BY255 RECTIFIER
13 19025	D.13	DIODE BY255 RECTIFIER
13 1621	D.14	DIODE 1N4148 SWITCH
13 1621	D.40	DIODE 1N4148 SWITCH
13 1637	D.41	DIODE BA158 SWITCH
13 1621	D.42	DIODE 1N4148 SWITCH
13 1637	D.50	DIODE BA158 SWITCH
13 2070	D.51	DIODE BG2097-643-415 CASCADE
13 1942	D.52	DIODE BY448 RECTIFIER
13 1921	D.53	DIODE BY299 RECTIFIER
13 1921	D.54	DIODE BY299 RECTIFIER
13 1921	D.55	DIODE BY299 RECTIFIER
13 1637	D.56	DIODE BA158 SWITCH
13 1644	D100	DIODE 1N4001 RECTIFIER
13 1621	D101	DIODE 1N4148 SWITCH
13 1621	D102	DIODE 1N4148 SWITCH
13 1621		DIODE 1N4148 SWITCH
13 1637		DIODE BA158 SWITCH
13 1771		DIODE ZENER150V 0W5 B
31 41041	F..1	FUSE 4A 5X20 SLOW
31 41041	F..2	FUSE 4A 5X20 SLOW
31 4102	F..3	FUSE 1A250 5X20 FAST
13 4010	I..1	INTEGRATED CIRCUIT 7815
13 2787	I..2	INTEGRATED CIRCUIT 4601 TDA
13 2762	I.50	INTEGRATED CIRCUIT 2595 TDA
13 2790	I100	INTEGRATED CIRCUIT 2653A TDA
77 3028	L..1	COIL CHOKE SMPOWER31
77 3028	L..2	COIL CHOKE SMPOWER31
30 2108	L..3	CORE TUBE 1,3/3,5X3
77 3309	L..4	COIL CHOKE MAINS 32
71 2604	L..5	CORE FERROX D2/5L10
30 6407	L.50	COIL LINEARITY 4042/08A 32
77 3363	L100	COIL BRIDGE 34GS
10 6107	P..1	TRIMPOT CAMH 10K M 0W05
10 6109	P.50	TRIMPOT CAMH 47K M 0W05
10 6109	P.51	TRIMPOT CAMH 47K M 0W05
10 52096	PTC1	RESISTOR PTC 220V PHILIPS
10 6109	P100	TRIMPOT CAMH 47K M 0W05
10 6104	P101	TRIMPOT CAMH 1K M 0W05
10 6101	P102	TRIMPOT CAMH 100E M 0W05
10 6105	P103	TRIMPOT CAMH 2K2 M 0W05
10 6105	P104	TRIMPOT CAMH 2K2 M 0W05
10 6109	P105	TRIMPOT CAMH 47K M 0W05
10 6111	P106	TRIMPOT CAMH 100K M 0W05
71 6345	PC..	PC 40 FRAME SUP 2 761372
13 25095	Q..1	TRANSISTOR BU508A
13 1413	Q.40	TRANSISTOR BC557 ,BC307
13 14295	Q.50	TRANSISTOR BC549B,
13 1471	Q.51	TRANSISTOR BF458
13 25095	Q.52	TRANSISTOR BU508A
13 1418	Q100	TRANSISTOR BC559 ,BC309

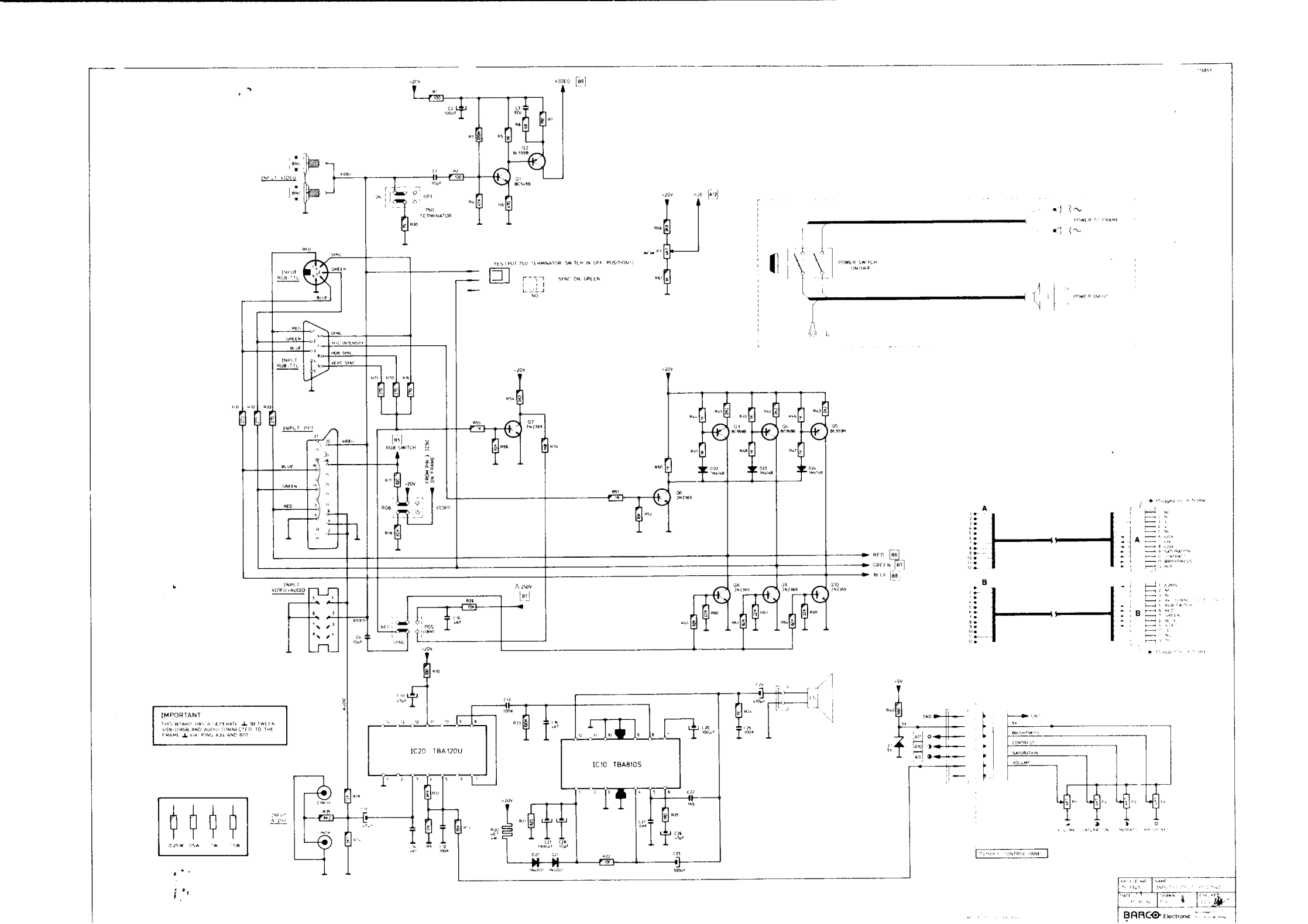
ITEM NO.	SIT.	DESCRIPTION
13 14072	Q101	TRANSISTOR BC547A,BC237A
13 2570	Q102	TRANSISTOR BDX77,BD709
10 4415	R..1	RESISTOR WW V 15E K 11W
10 1206	R..2	RESISTOR CF 3E3 J 0W50
10 11947	R..3	RESISTOR CFF E47 K 0W40
10 1358	R..4	RESISTOR CF 68K J 1W
10 1244	R..5	RESISTOR CF 4K7 J 0W50
10 1359	R..6	RESISTOR CF 82K J 1W
10 11907	R..7	RESISTOR CFF E10 J 0W40
10 1217	R..8	RESISTOR CF 27E J 0W50
10 3254	R..9	RESISTOR MO 33K J 1W50
10 1100	R.10	RESISTOR CF 1E J 0W25
10 1100	R.11	RESISTOR CF 1E J 0W25
10 1160	R.12	RESISTOR CF 100K J 0W25
10 4268	R.13	RESISTOR WW V 33E K 7W
10 1152	R.14	RESISTOR CF 22K J 0W25
10 1148	R.15	RESISTOR CF 10K J 0W25
10 1265	R.16	RESISTOR CF 270K J 0W50
10 1139	R.17	RESISTOR CF 1K8 J 0W25
10 4407	R.18	RESISTOR WW V 3E3 K 11W
10 1267	R.19	RESISTOR CF 390K J 0W50
10 4670	R.20	RESISTOR HV 4M7 J 0W50
10 4670	R.21	RESISTOR HV 4M7 J 0W50
10 1155	R.22	RESISTOR CF 39K J 0W25
10 1157	R.23	RESISTOR CF 56K J 0W25
10 1143	R.24	RESISTOR CF 3K9 J 0W25
10 1253	R.25	RESISTOR CF 27K J 0W50
10 13997	R.26	RESISTOR CFF E10 K 1W
10 1130	R.28	RESISTOR CF 330E J 0W25
10 1136	R.41	RESISTOR CF 1K J 0W25
10 1131	R.42	RESISTOR CF 390E J 0W25
10 1148	R.43	RESISTOR CF 10K J 0W25
10 1144	R.44	RESISTOR CF 4K7 J 0W25
10 1162	R.47	RESISTOR CF 150K J 0W25
10 1145	R.48	RESISTOR CF 5K6 J 0W25
10 1121	R.50	RESISTOR CF 56E J 0W25
10 1134	R.51	RESISTOR CF 680E J 0W25
10 1144	R.52	RESISTOR CF 4K7 J 0W25
10 1135	R.53	RESISTOR CF 820E J 0W25
10 1160	R.54	RESISTOR CF 100K J 0W25
10 1161	R.55	RESISTOR CF 120K J 0W25
10 1149	R.56	RESISTOR CF 12K J 0W25
10 1161	R.57	RESISTOR CF 120K J 0W25
10 1136	R.58	RESISTOR CF 1K J 0W25
10 4656	R.59	RESISTOR HV 1M2 J 0W50
10 1136	R.60	RESISTOR CF 1K J 0W25
10 1132	R.61	RESISTOR CF 470E J 0W25
10 4170	R.62	RESISTOR WW V 1K K 4W
10 4245	R.63	RESISTOR WW V 2K7 K 7W
10 4172	R.64	RESISTOR WW V 1E8 K 4W
10 1120	R.65	RESISTOR CF 47E J 0W25
10 14675	R.66	RESISTOR MF 390K J 1W50
10 14675	R.67	RESISTOR MF 390K J 1W50
10 1130	R.68	RESISTOR CF 330E J 0W25
10 4169	R.69	RESISTOR WW V 1K5 K 4W
10 1124	R.70	RESISTOR CF 100E J 0W25
10 1164	R.72	RESISTOR CF 220K J 0W25
10 1164	R.73	RESISTOR CF 220K J 0W25
10 1136	R.74	RESISTOR CF 1K J 0W25
10 1124	R.75	RESISTOR CF 100E J 0W25
10 1112	R.76	RESISTOR CF 10E J 0W25
10 1168	R.91	RESISTOR CF 470K J 0W25
10 1135	R.92	RESISTOR CF 820E J 0W25
10 1136	R.94	RESISTOR CF 1K J 0W25
10 1208	R.95	RESISTOR CF 4E7 J 0W50
10 1142	R.96	RESISTOR CF 3K3 J 0W25
10 1133	R.97	RESISTOR CF 560E J 0W25
10 1136	R.98	RESISTOR CF 1K J 0W25
10 1144	R100	RESISTOR CF 4K7 J 0W25

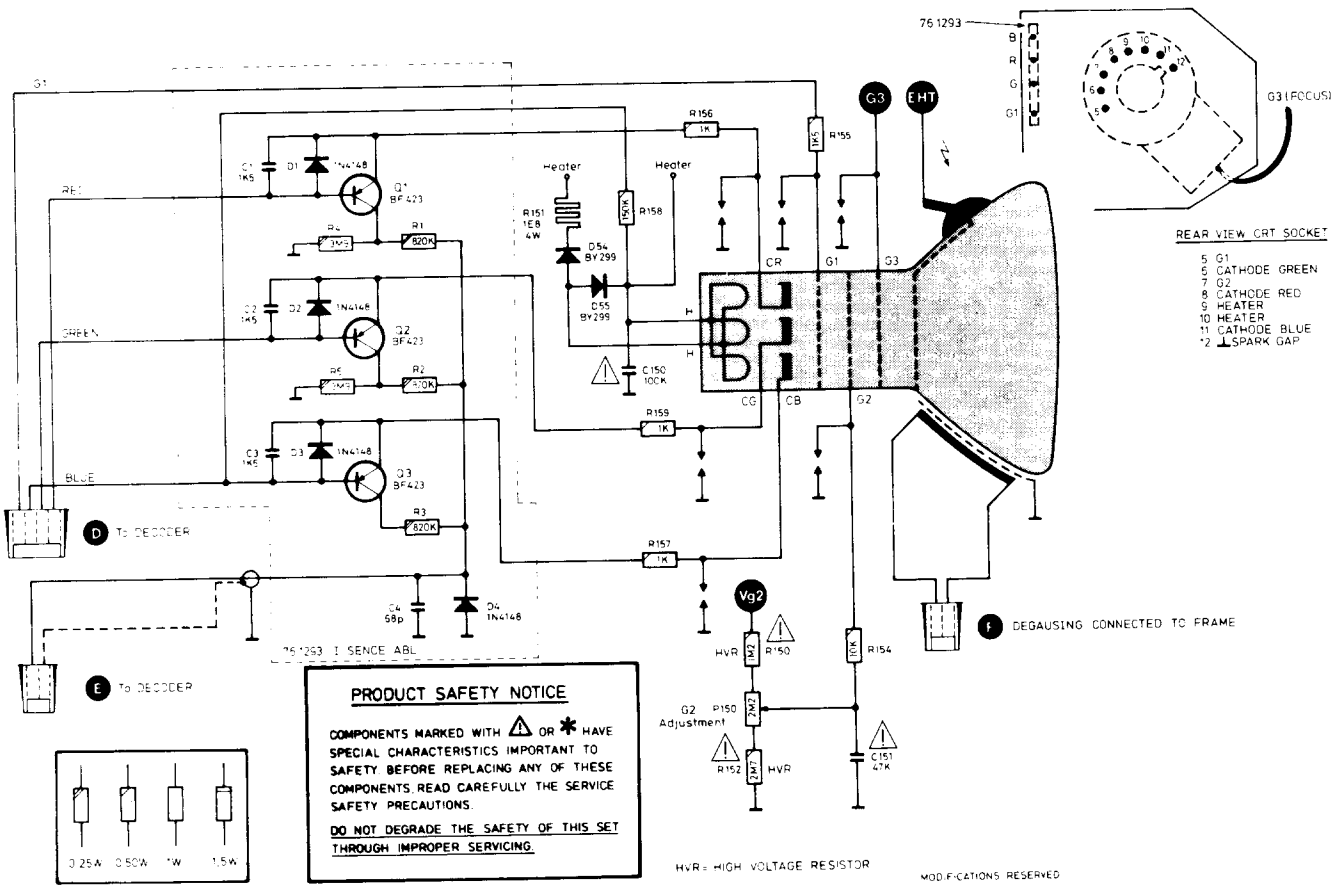
ITEM NO.	SIT.	DESCRIPTION
10 1168	R101	RESISTOR CF 470K J 0W25
10 1309	R102	RESISTOR CF 5E6 J 1W
10 1159	R103	RESISTOR CF 82K J 0W25
10 1149	R104	RESISTOR CF 12K J 0W25
10 1163	R105	RESISTOR CF 180K J 0W25
10 1156	R106	RESISTOR CF 47K J 0W25
10 1156	R107	RESISTOR CF 47K J 0W25
10 1142	R108	RESISTOR CF 3K3 J 0W25
10 1160	R109	RESISTOR CF 100K J 0W25
10 1151	R110	RESISTOR CF 18K J 0W25
10 1136	R111	RESISTOR CF 1K J 0W25
10 1151	R112	RESISTOR CF 18K J 0W25
10 1131	R113	RESISTOR CF 390E J 0W25
10 1136	R114	RESISTOR CF 1K J 0W25
10 1126	R115	RESISTOR CF 150E J 0W25
10 1100	R116	RESISTOR CF 1E J 0W25
10 1140	R117	RESISTOR CF 2K2 J 0W25
10 1156	R118	RESISTOR CF 47K J 0W25
10 1133	R119	RESISTOR CF 560E J 0W25
10 1156	R120	RESISTOR CF 47K J 0W25
10 1159	R121	RESISTOR CF 82K J 0W25
10 1136	R122	RESISTOR CF 1K J 0W25
10 1165	R123	RESISTOR CF 270K J 0W25
10 1140	R125	RESISTOR CF 2K2 J 0W25
10 4170	R126	RESISTOR WW V 1K K 4W
10 1103	R127	RESISTOR CF 1E8 J 0W25
10 4656	R150	RESISTOR HV 1M2 J 0W50
10 41738	R151	RESISTOR WWFV 3E9 K 3W
10 12484	R154	RESISTOR CF 10K J 0W50
10 2038	R155	RESISTOR CC 1K5 K 0W50
10 12364	R156	RESISTOR CF 1K J 0W50
10 12364	R157	RESISTOR CF 1K J 0W50
10 1262	R158	RESISTOR CF 150K J 0W50
10 12364	R159	RESISTOR CF 1K J 0W50
10 1124		RESISTOR CF 100E J 0W25
10 1140		RESISTOR CF 2K2 J 0W25
10 1145		RESISTOR CF 5K6 J 0W25
10 1150		RESISTOR CF 15K J 0W25
77 41106	T..1	TRANSFORMER SMP 67 CEBEC 40
77 3360	T.50	TRANSFORMER DRIVER HOR 34
77 41228	T.51	TRANSFORMER EHT MCD2640
13 1749	Z.40	DIODE ZENER 18V 0W5 C
76 12934		UN.I SENSE ABL40 FST
31 3577	001.	CONNECTOR MT MOBTE P 2 10
31 5310	002.	CONNECTOR TAB MOBTE P 1 2,8
31 3454	003.	CONNECTOR TAB MOBTE P 1 4,8
31 3578	004.	CONNECTOR MT MOBTE P 4 7,5
31 32651	005.	RESISTOR WW V HOLDER H20
31 3224	006.	RESISTOR WW V HOLDER H25
31 4501	007.	FUSE 5X20 CLIPS
31 1034	008.	TUBE SOCKET SG 11-13KV
31 3249	009.	CONNECTOR IC FOBTE P18 7,5
31 3599	010.	CONNECTOR EDGE FOBTE P20 5
36 2122	012.	SCREW DIN7985 M 3 X 8 MP+
36 6102	013.	NUT DIN934 M 3 HEXAGONAL
80 0170	015.	FRAME LATH L 40
80 0171	016.	FRAME LATH R 40
72 1664	017.	FIXSTRIP FRAME 40
80 0169	018.	HEATSINK 40 FRAME DOWN
36 7454	019.	RIVET AL FE TAP/D/BS44 D3,2
80 0182	020.	HEATSINK 40 SMP
80 01881	021.	ISOLSHEET 15X24 40
80 01882	022.	ISOLSHEET 20X24 40
13 3058	023.	TRANSISTOR FIX CLIPS TO-220
13 3032	024.	TRANSISTOR FIX CLIPS TO-126
13 3062	025.	TRANSISTOR FIX CLIPS SOT-93



76 11948 Un. Pan. Cont. I/O DCD2740 RGBS
Drawn : LDW Checked :
Date : 24/08/89

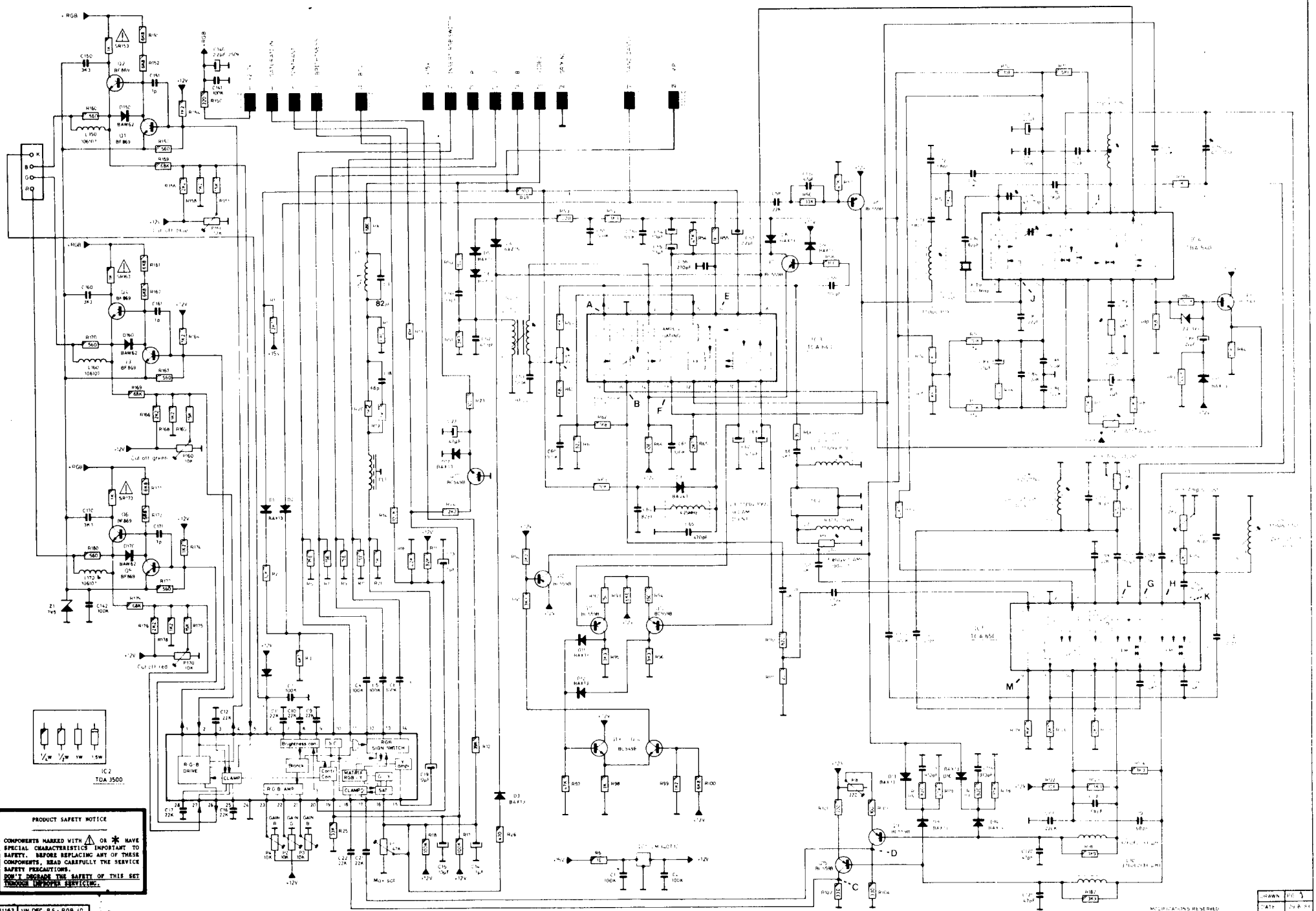
661194 661332

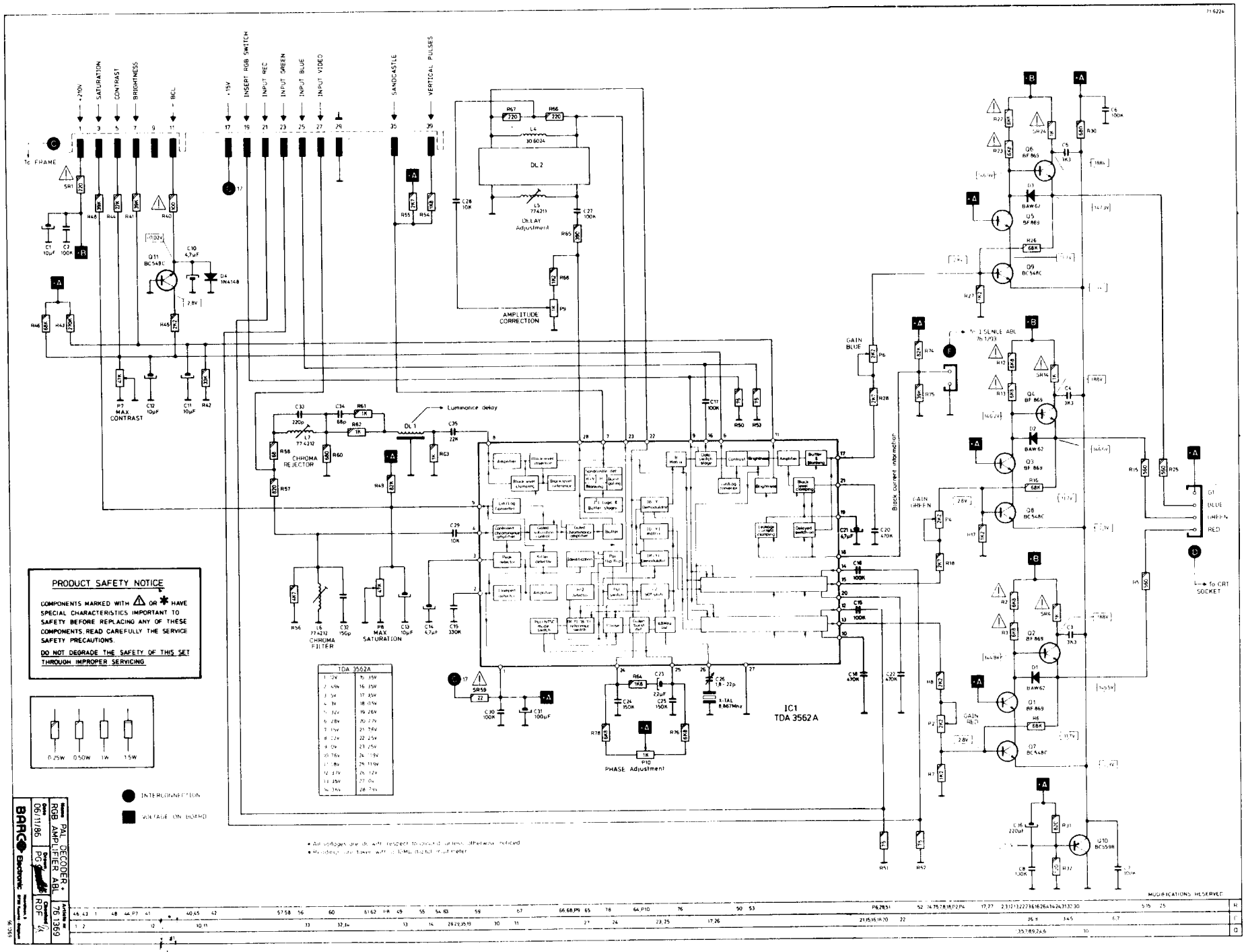

IMPORTANT
THIS BOARD HAS ALTERNATE ⊥ BETWEEN VIDEO/RGB AND AUDIO CONNECTED TO THE FRAME ⊥ VIA PINS A32 AND B12
IC20 TBA120U
IC10 TBA810S
INPUT RGB TTL
INPUT VIDEO+AUDIO
RGB SWITCH
SYNC ON GREEN
POWER SWITCH ON/OFF
POWER ENTRY
POWER TO FRAME
CONTRAST
SATURATION
VOLUME
BRIGHTNESS
HUE
BARCO Electronic



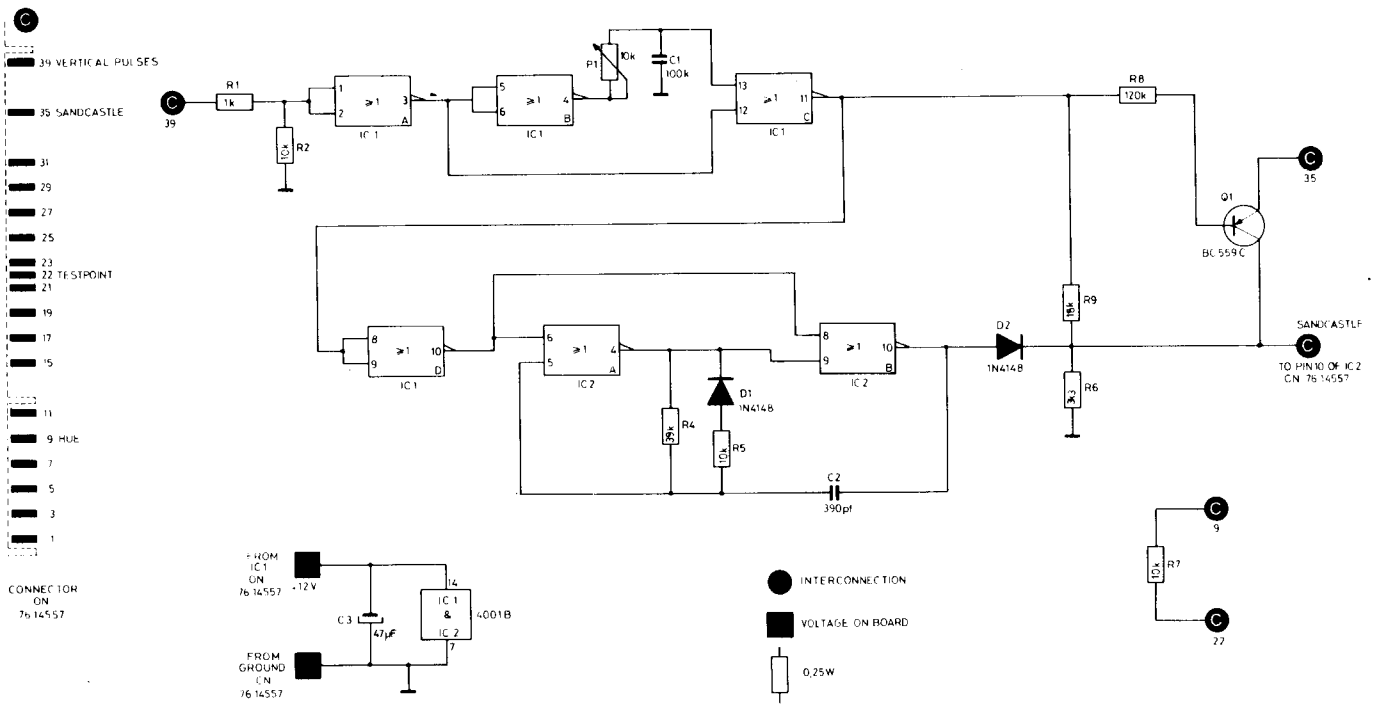
Name	CRT SOCKET / ABL	Article nr.	76 1293
Date	17/11/86	Drawn	PG
		Checked	RDF

BARCO Electronic


+RGB
R
G
B
IC2
TDA 3500
PRODUCT SAFETY NOTICE
COMPONENTS MARKED WITH ⚠ OR * HAVE SPECIAL CHARACTERISTICS IMPORTANT TO SAFETY. BEFORE REPLACING ANY OF THESE COMPONENTS, READ CAREFULLY THE SERVICE SAFETY PRECAUTIONS.
DON'T DEGRADE THE SAFETY OF THIS SET THROUGH IMPROPER SERVICING.
7811 62
UN.DEC.P.S + RGB 40
DRAWN
CHECKED
MODIFICATIONS RESERVED

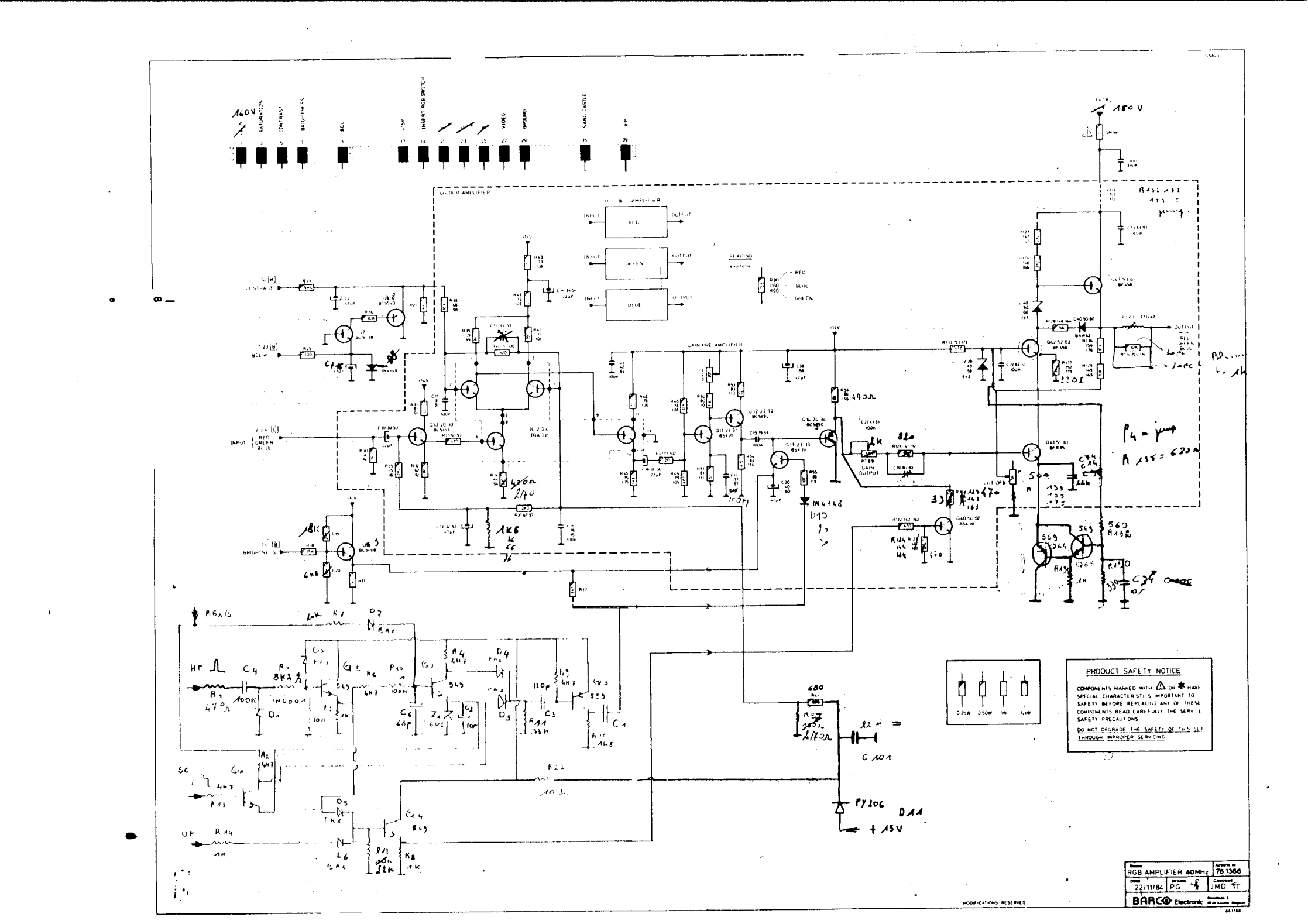

+210V
SATURATION
CONTRAST
BRIGHTNESS
+BCL
+15V
INSERT RGB SWITCH
INPUT RED
INPUT GREEN
INPUT BLUE
INPUT VIDEO
SANDCASTLE
VERTICAL PULSES
to FRAME
DL 2
DELAY Adjustment
AMPLITUDE CORRECTION
DL 1
Luminance delay
CHROMA REJECTOR
CHROMA FILTER
MAX SATURATION
MAX CONTRAST
PHASE Adjustment
IC1
TDA 3562A
GAIN BLUE
GAIN GREEN
GAIN RED
Black current information
to CRT SOCKET
PRODUCT SAFETY NOTICE
COMPONENTS MARKED WITH ⚠ OR * HAVE SPECIAL CHARACTERISTICS IMPORTANT TO SAFETY BEFORE REPLACING ANY OF THESE COMPONENTS, READ CAREFULLY THE SERVICE SAFETY PRECAUTIONS.
DO NOT DEGRADE THE SAFETY OF THIS SET THROUGH IMPROPER SERVICING.
0.25W 0.50W 1W 1.5W
INTERCONNECTION
VOLTAGE ON BOARD
TDA 3562A
PAL DECODER + RGB AMPLIFIER ABL
76 1369
06/11/86
RDF
MODIFICATIONS RESERVED

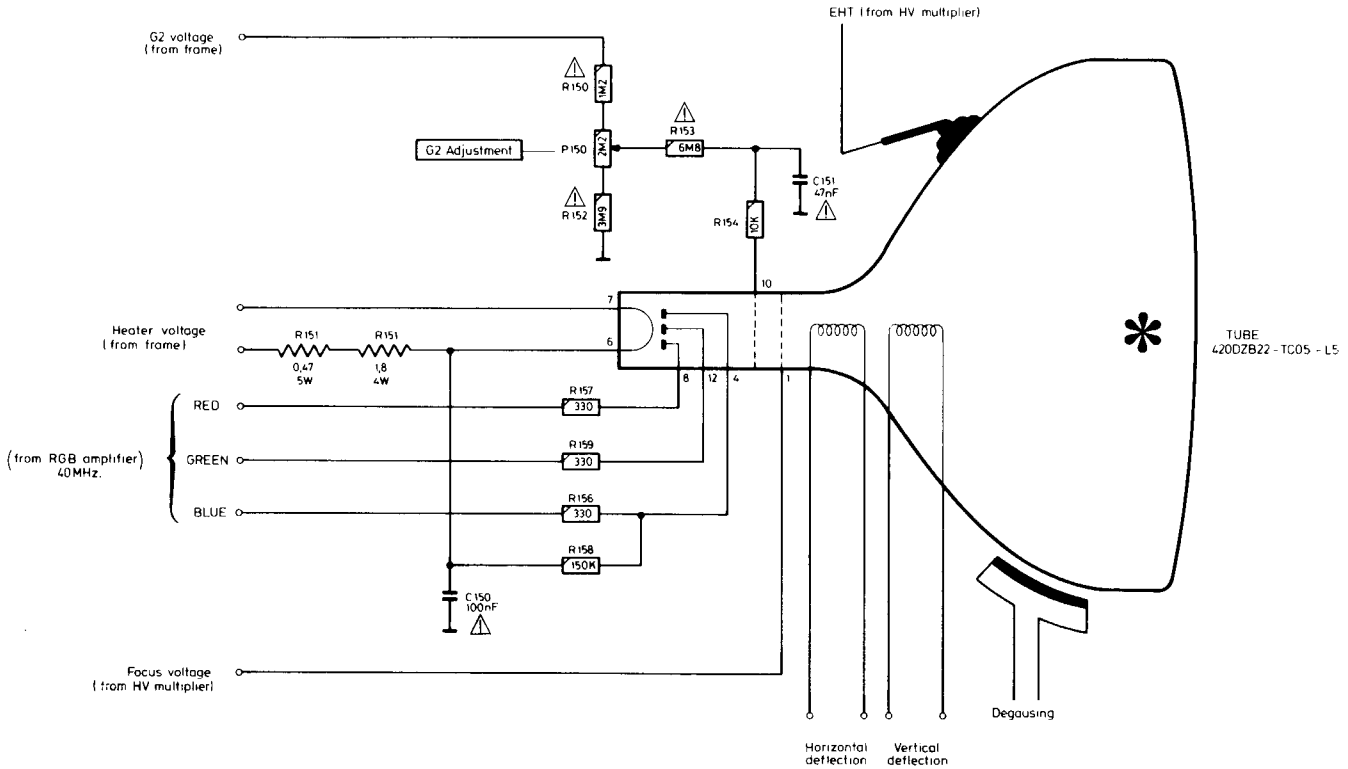
MODIFICATIONS RESERVED



Name	VERT PULSE SHORTER
Article nr.	7614136
Date	04/06/87
Drawn	JVH
Checked	RDF

BARCO Electronic


160V
SATURATION
CONTRAST
BRIGHTNESS
BGL
-15V
INSERT RGB SWITCH
VIDEO
GROUND
SANDCASTLE
VP
GAIN AMPLIFIER
R.G.B. AMPLIFIER
INPUT
OUTPUT
RED
GREEN
BLUE
READING
GAIN PRE AMPLIFIER
+15V
+180 V
IC 23 TBA 331
IN4148
PY106
+15V
PRODUCT SAFETY NOTICE
COMPONENTS MARKED WITH ⚠ OR ✱ HAVE SPECIAL CHARACTERISTICS IMPORTANT TO SAFETY. BEFORE REPLACING ANY OF THESE COMPONENTS READ CAREFULLY THE SERVICE SAFETY PRECAUTIONS
DO NOT DEGRADE THE SAFETY OF THE SET THROUGH IMPROPER SERVICING
MODIFICATIONS RESERVED
RGB AMPLIFIER 40MHz
76 1366
22/11/84
PG
JMD
BARCO Electronic



• All resistors are 0,50W unless otherwise specified

Name	CRT socket PCD LP
Date	16/10/87
Drawn	PG
Checked	JMD
Article nr.	76 1375

BARCO Electronic

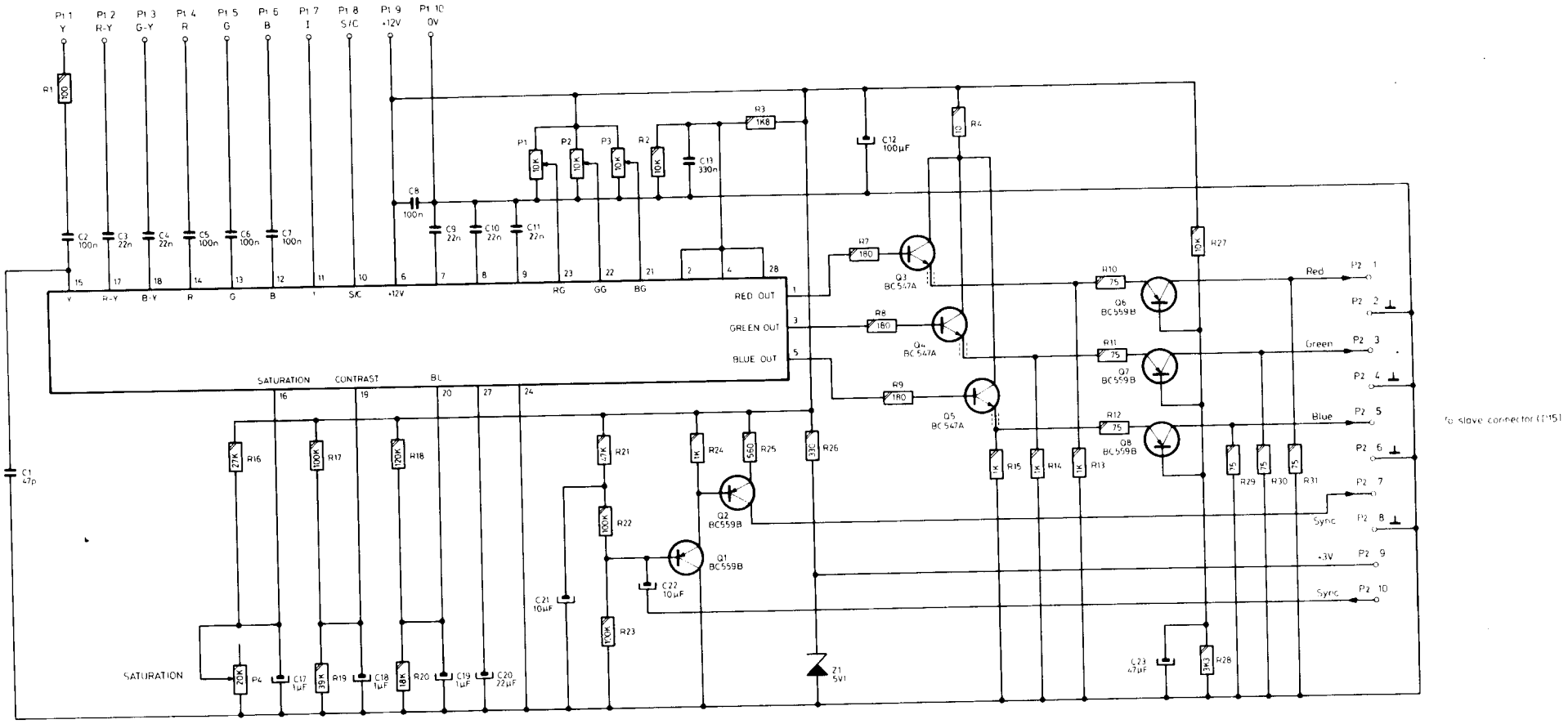
66 1375

PRODUCT SAFETY NOTICE

COMPONENTS MARKED WITH ⚠ OR * HAVE SPECIAL CHARACTERISTICS IMPORTANT TO SAFETY. BEFORE REPLACING ANY OF THESE COMPONENTS, READ CAREFULLY THE SERVICE SAFETY PRECAUTIONS.

DO NOT DEGRADE THE SAFETY OF THIS SET THROUGH IMPROPER SERVICING.

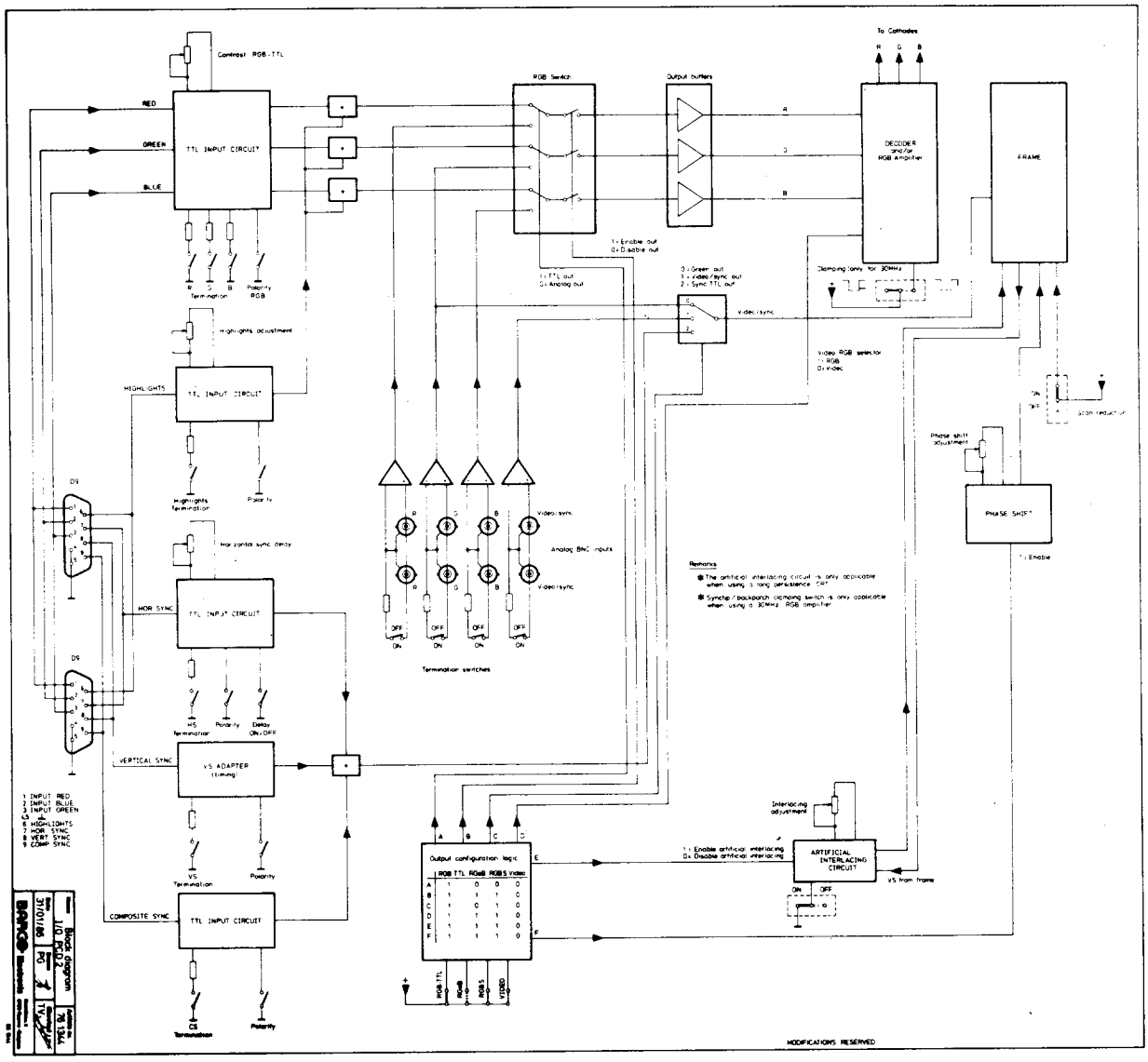
Modifications reserved

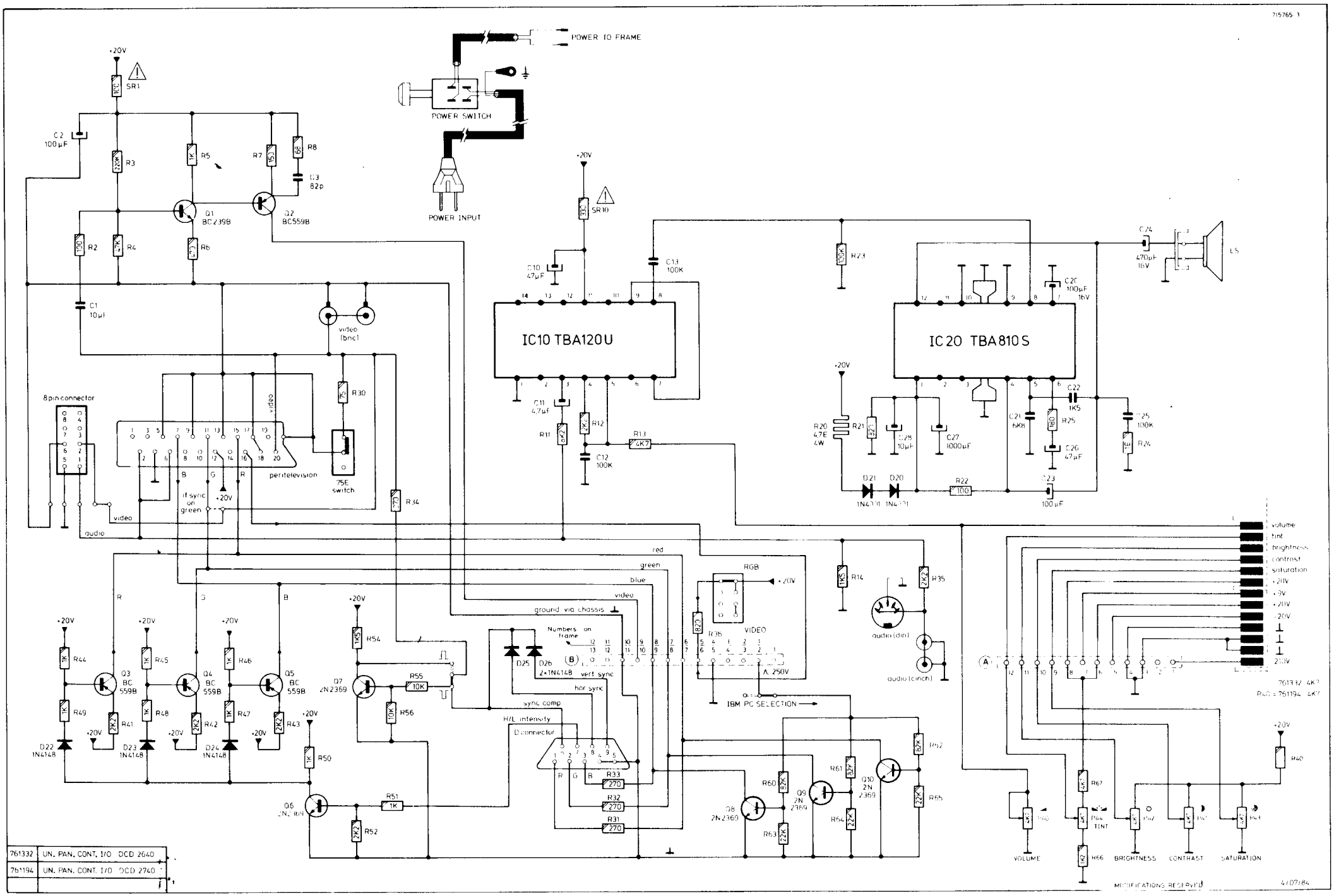


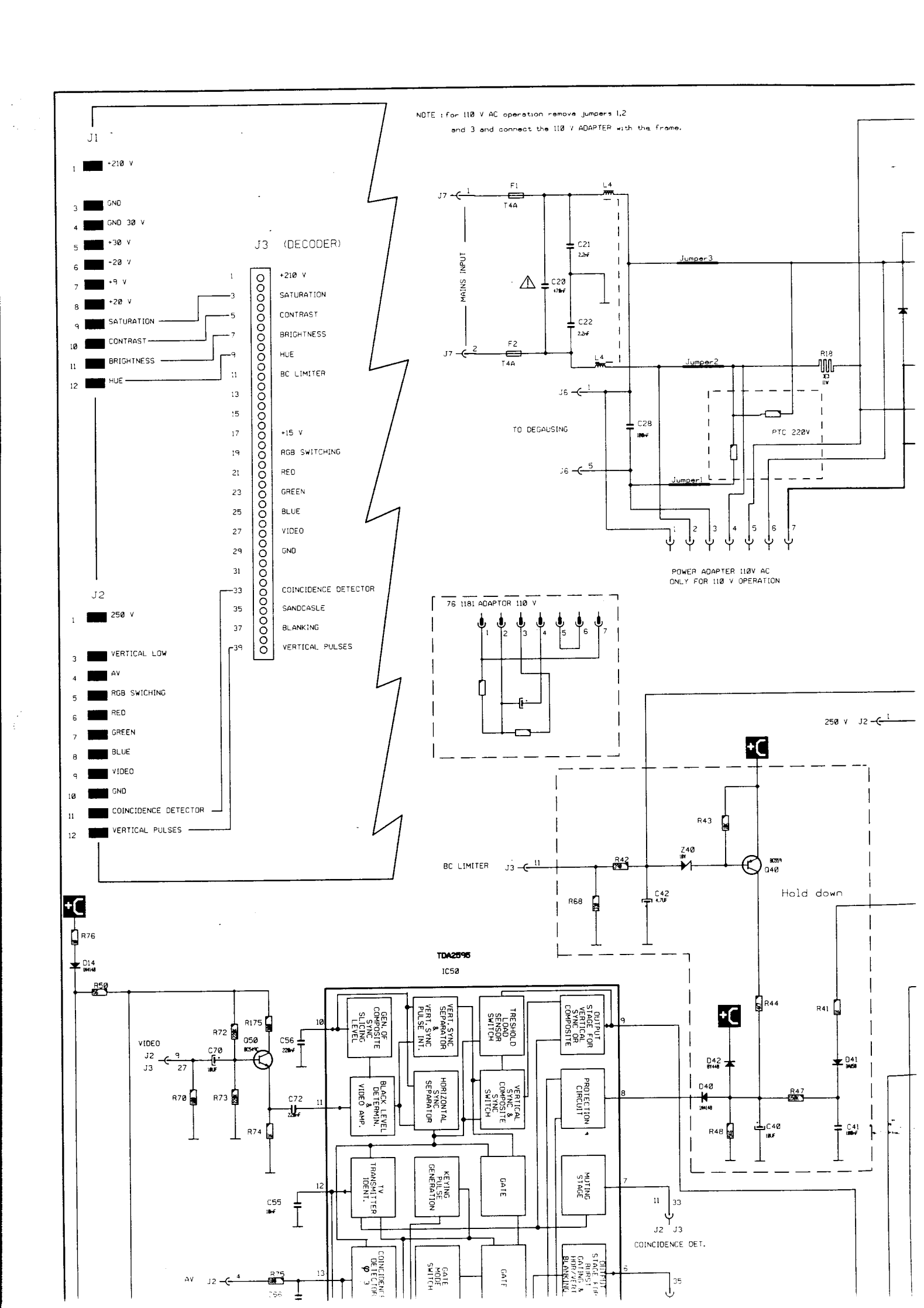
NOTES : Y, R-Y and B-Y come direkt from the TDA4560/5
I, S/C, R, G, B all connect to signal at edge connector
Power and ground are taken from near the 12 regulator

Name RGB Slave output		Article nr 76 1437
File 19/11/87	Drawn PG	
	Checked RDF	

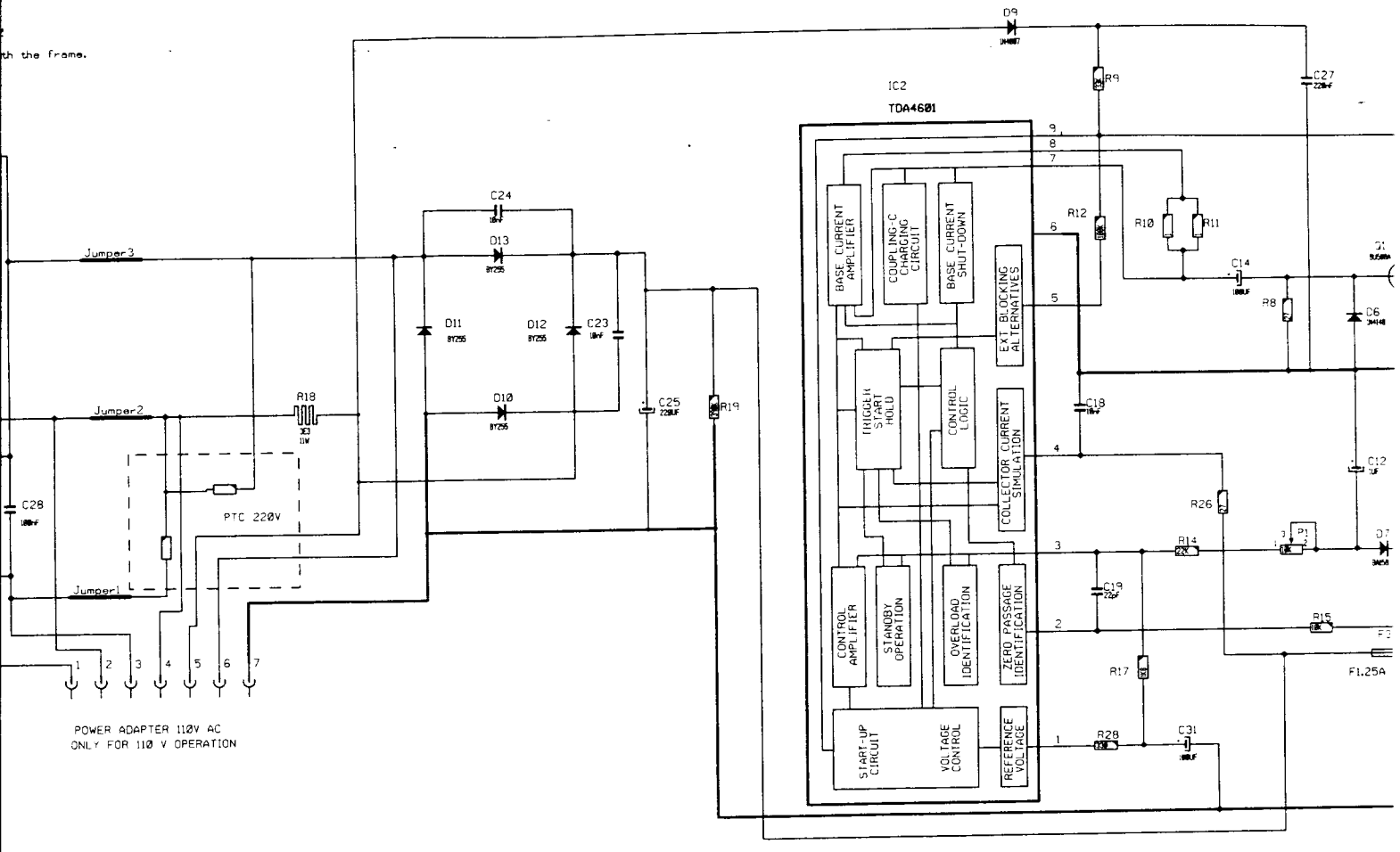
MODIFICATIONS RESERVED

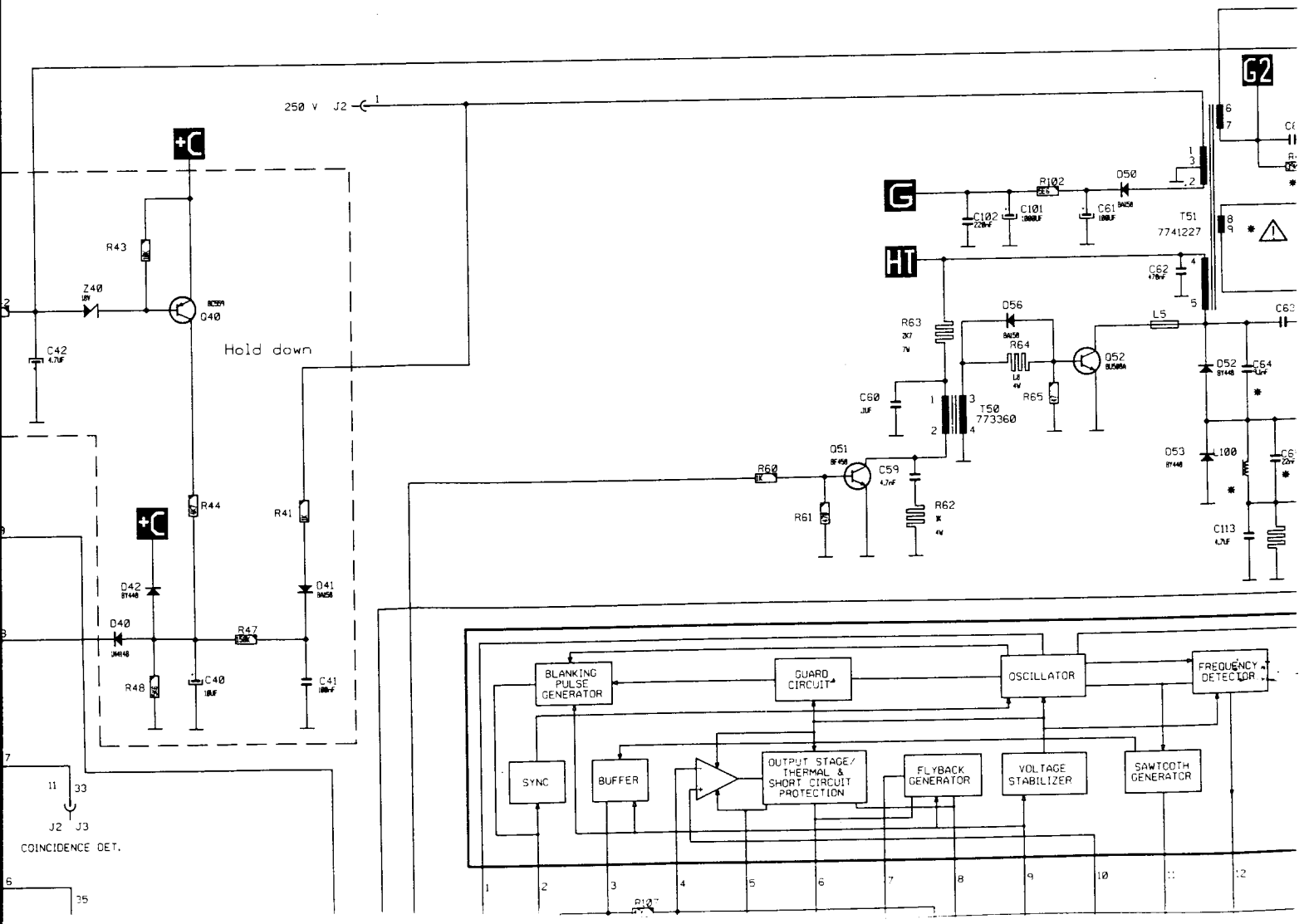

Contrast RGB-TTL
RED
GREEN
BLUE
TTL INPUT CIRCUIT
Termination
Polarity RGB
Highlights adjustment
HIGHLIGHTS
TTL INPUT CIRCUIT
Highlights Termination
Polarity
D9
Horizontal sync delay
HOR SYNC
TTL INPUT CIRCUIT
HS Termination
Polarity
Delay ON/OFF
VERTICAL SYNC
V.S. ADAPTER (timing)
VS Termination
Polarity
COMPOSITE SYNC
TTL INPUT CIRCUIT
CS Termination
Polarity
1 INPUT RED
2 INPUT BLUE
3 INPUT GREEN
4,5 ⊥
6 HIGHLIGHTS
7 HOR SYNC
8 VERT SYNC
9 COMP SYNC
RGB Switch
Output buffers
1 = Enable out
0 = Disable out
1 = TTL out
0 = Analog out
0 = Green out
1 = Video/sync out
2 = Sync TTL out
Video/sync
Termination switches
Analog BNC inputs
Video sync
Video/sync
To Cathodes
R G B
DECODER and/or RGB Amplifier
FRAME
Clamping (only for 30kHz)
Video RGB selector
1 = RGB
0 = Video
Phase shift adjustment
PHASE SHIFT
1 = Enable
Scan reduction
Remarks
* The artificial interlacing circuit is only applicable when using a long persistence CRT
* Synchr./backporch clamping switch is only applicable when using a 30kHz RGB amplifier
Output configuration logic
RGB TTL RGsB RGBS Video
Interlacing adjustment
1 = Enable artificial interlacing
0 = Disable artificial interlacing
ARTIFICIAL INTERLACING CIRCUIT
VS from frame
RGB TTL
RGsB
RGBS
VIDEO
I/O PCB 2
Block diagram
MODIFICATIONS RESERVED

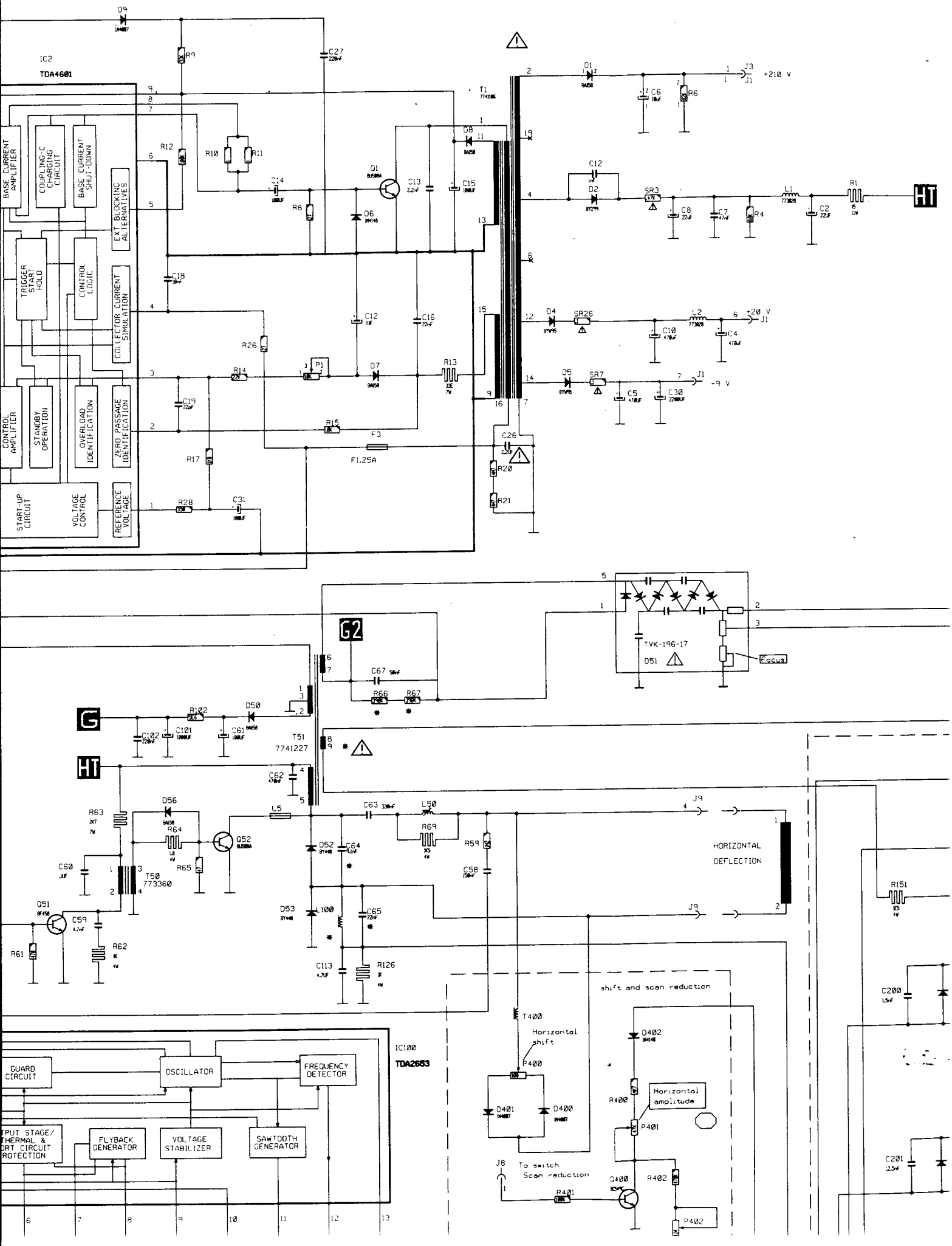

715765-1
POWER TO FRAME
POWER SWITCH
POWER INPUT
+20V
SR1
SR10
C1 10µF
C2 100µF
C3 82p
C10 47µF
C11 4.7µF
C12 100K
C13 100K
C18 100µF 16V
C20 100µF 16V
C21 6K8
C22 1K5
C23 100µF
C24 470µF 16V
C25 100K
C26 47µF
C27 1000µF
C28 10µF
R1 100
R2 100
R3 220K
R4 47K
R5 1K
R6 82
R7 150
R8 68
R11 2K2
R12 2K2
R13 4K7
R20 4.7E 4W
R21 82
R22 100
R23 100K
R24 1E
R25 180
R30 75
R34 270
IC10 TBA120U
IC20 TBA810S
video (bnc)
8 pin connector
video
audio
peritelevision
75E switch
if sync on green
red
green
blue
video
ground via chassis
RGB
VIDEO
audio (din)
audio (cinch)
IBM PC SELECTION
Numbers on frame
vert sync
hor sync
sync comp
H/L intensity
D connector
R44 1K
R45 1K
R46 1K
R47 1K
R48 1K
R49 1K
R41 2K2
R42 2K2
R43 2K2
R50 1K
R51 1K
R52 2K2
R54 1K5
R55 10K
R56 10K
R33 270
R32 270
R31 270
R35 2K2
R14 1K5
R36 820
R60 82K
R61 82K
R62 82K
R63 22K
R64 22K
R65 22K
R66 1K2
R67 4K7
R40
D22 1N4148
D23 1N4148
D24 1N4148
D25 D26 2×1N4148
D20 1N4001
D21 1N4001
Q1 BC239B
Q2 BC559B
Q3 BC 559B
Q4 BC 559B
Q5 BC 559B
Q6 2N 869
Q7 2N2369
Q8 2N2369
Q9 2N 2369
Q10 2N 2369
volume
tint
brightness
contrast
saturation
+20V
+9V
+20V
-20V
250V
VOLUME
TINT
BRIGHTNESS
CONTRAST
SATURATION
761332 4K7
R66 = 761194 4K7
761332 UN. PAN. CONT. I/O OCD 2640
761194 UN. PAN. CONT. I/O OCD 2740
661194
661332
MODIFICATIONS RESERVED
4/07/84

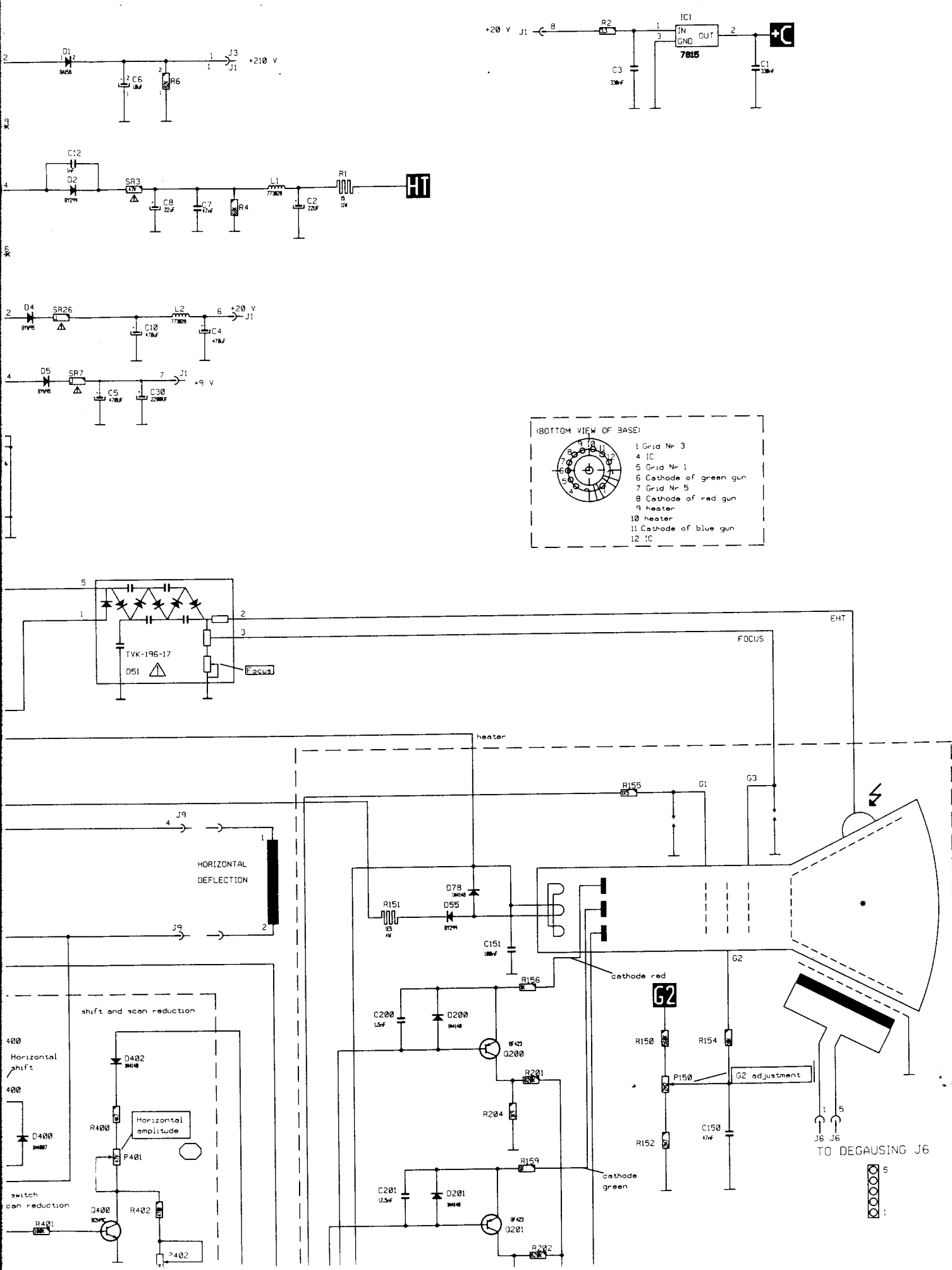

NOTE : for 110 V AC operation remove jumpers 1,2 and 3 and connect the 110 V ADAPTER with the frame.
J1
+210 V
GND
GND 30 V
+30 V
-20 V
+9 V
+20 V
SATURATION
CONTRAST
BRIGHTNESS
HUE
J3 (DECODER)
+210 V
SATURATION
CONTRAST
BRIGHTNESS
HUE
BC LIMITER
+15 V
RGB SWITCHING
RED
GREEN
BLUE
VIDEO
GND
COINCIDENCE DETECTOR
SANDCASLE
BLANKING
VERTICAL PULSES
J2
250 V
VERTICAL LOW
AV
RGB SWICHING
RED
GREEN
BLUE
VIDEO
GND
COINCIDENCE DETECTOR
VERTICAL PULSES
MAINS INPUT
F1
T4A
F2
T4A
L4
C21
C20
C22
Jumper3
Jumper2
Jumper1
R18
C28
TO DEGAUSING
PTC 220V
POWER ADAPTER 110V AC
ONLY FOR 110 V OPERATION
76 1181 ADAPTOR 110 V
250 V
R43
Z40
Q40
R42
R68
C42
Hold down
TDA2595
IC50
R76
D14
R50
R72
R175
Q50
C56
VIDEO
C70
R70
R73
C72
R74
C55
R75
R44
R41
D42
D41
D40
R47
R48
C40
C41
GEN. OF COMPOSITE SYNC SLICING LEVEL
VERT. SYNC SEPARATOR
VERT. SYNC PULSE INT.
TRESHOLD LOAD SENSOR SWITCH
OUTPUT STAGE FOR VERTICAL SYNC OR COMPOSITE
BLACK LEVEL DETERMIN. VIDEO AMP.
HORIZONTAL SYNC SEPARATOR
VERTICAL SYNC & COMPOSITE SYNC SWITCH
PROTECTION CIRCUIT
TV TRANSMITTER IDENT.
KEYING PULSE GENERATION
GATE
MUTING STAGE
COINCIDENCE DETECTOR
GATE MODE SWITCH
GATE
COINCIDENCE DET.

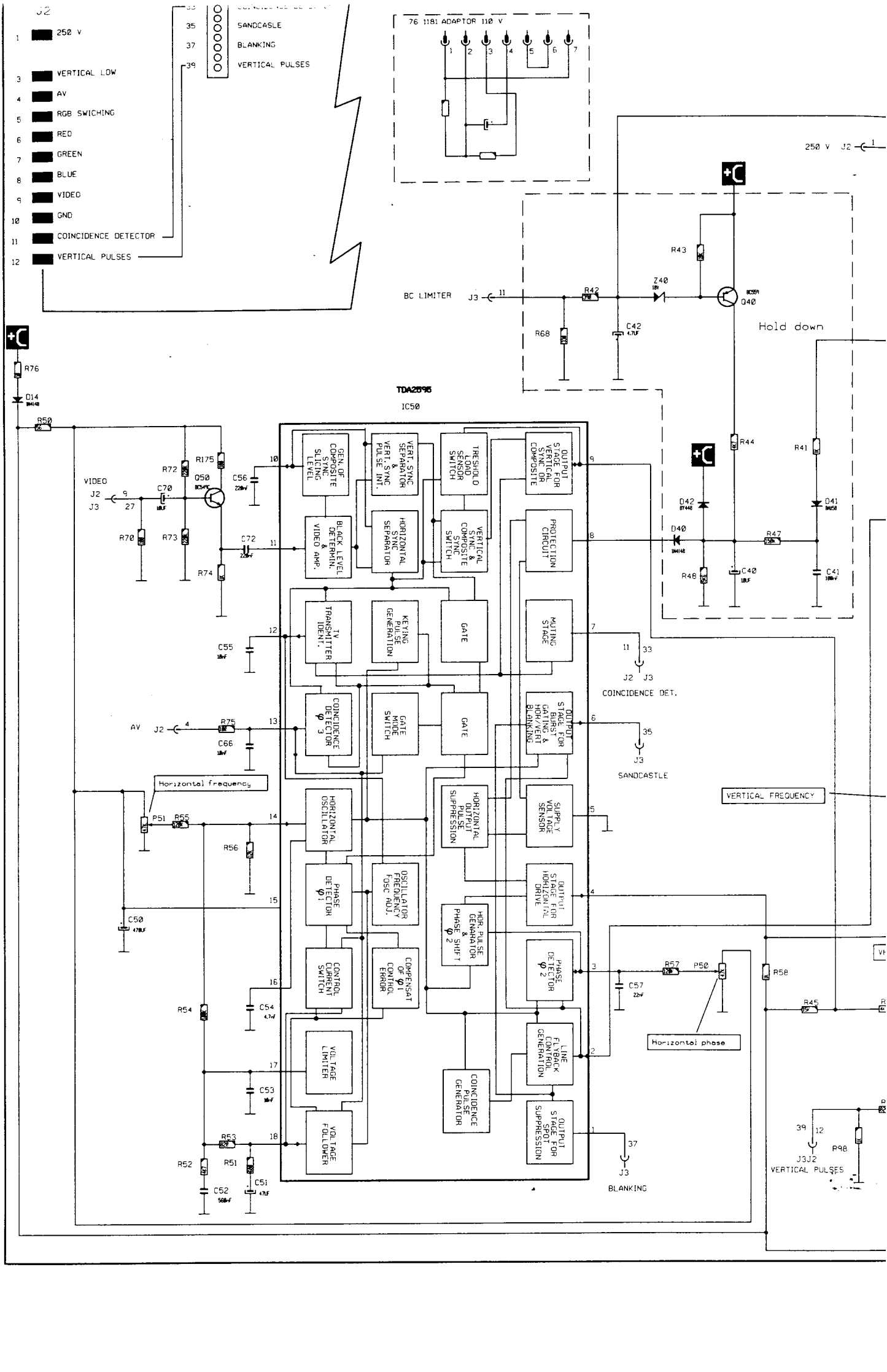
th the frame.

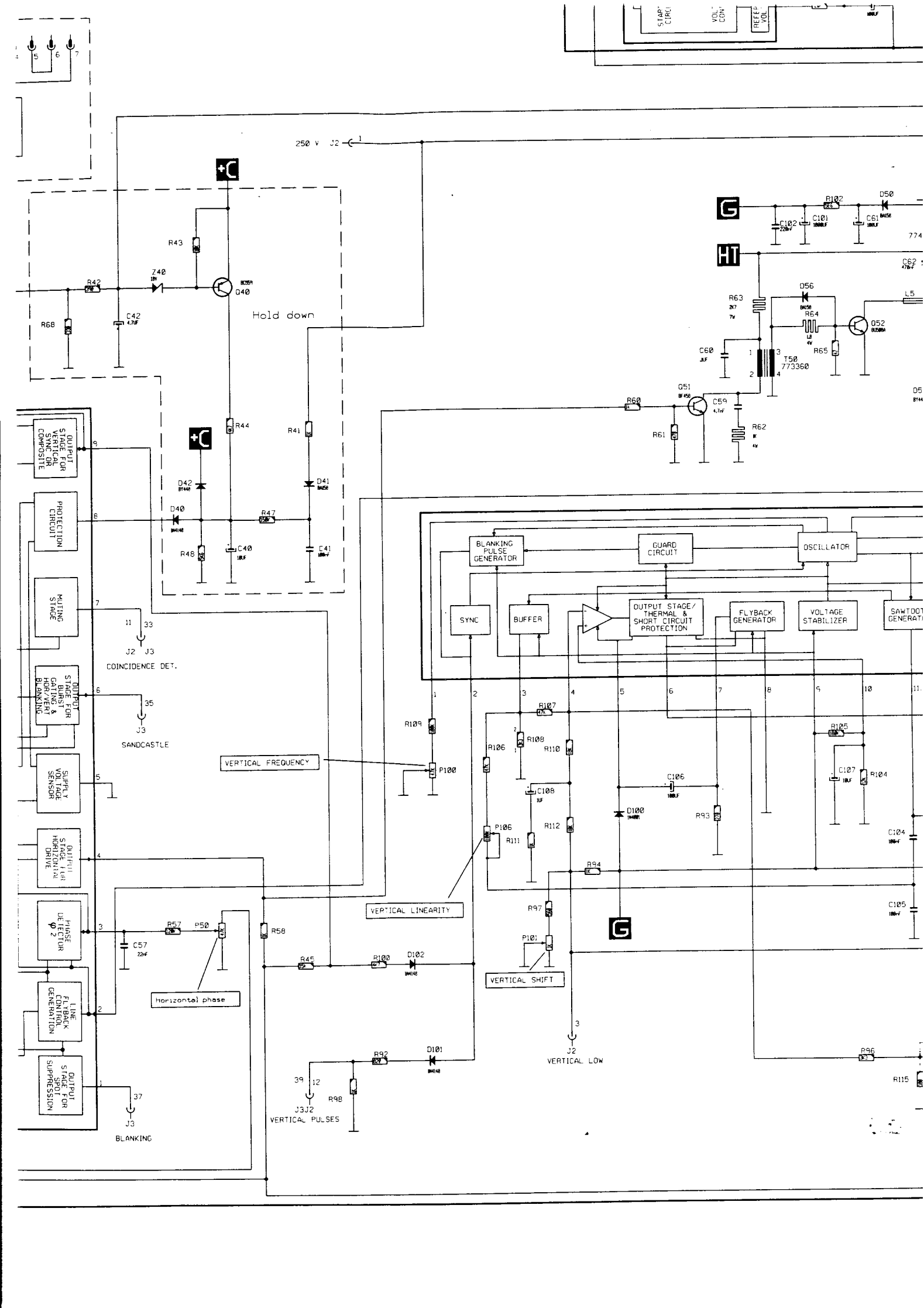

IC2
TDA4601
BASE CURRENT AMPLIFIER
COUPLING-C CHARGING CIRCUIT
BASE CURRENT SHUT-DOWN
EXT BLOCKING ALTERNATIVES
TRIGGER START HOLD
CONTROL LOGIC
COLLECTOR CURRENT SIMULATION
CONTROL AMPLIFIER
STANDBY OPERATION
OVERLOAD IDENTIFICATION
ZERO PASSAGE IDENTIFICATION
START-UP CIRCUIT
VOLTAGE CONTROL
REFERENCE VOLTAGE
Jumper3
Jumper2
Jumper1
PTC 220V
POWER ADAPTER 110V AC
ONLY FOR 110 V OPERATION
F1.25A

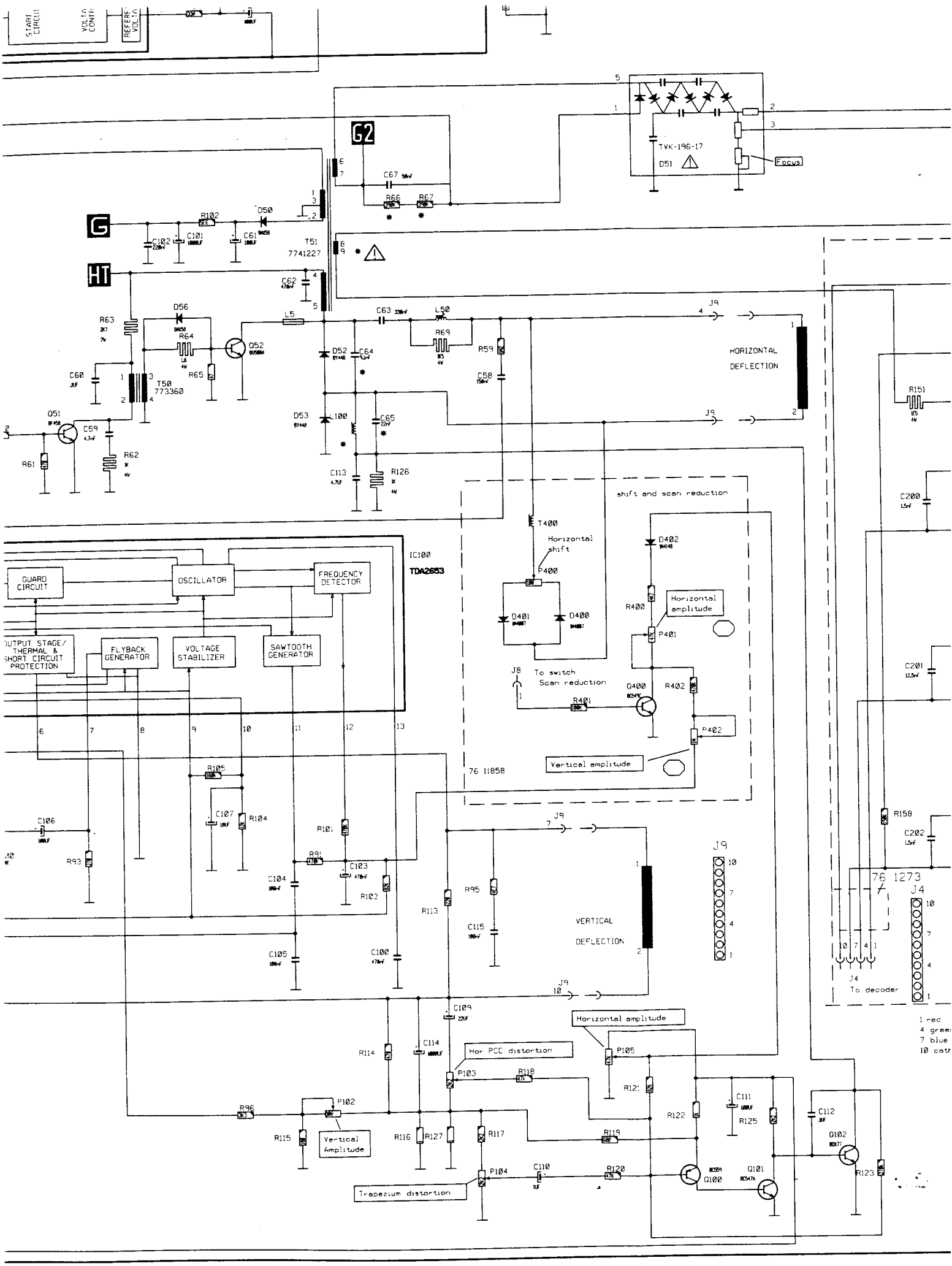

250 V J2
Hold down
T51
7741227
T50
773360
BLANKING PULSE GENERATOR
GUARD CIRCUIT
OSCILLATOR
FREQUENCY DETECTOR
SYNC
BUFFER
OUTPUT STAGE/ THERMAL & SHORT CIRCUIT PROTECTION
FLYBACK GENERATOR
VOLTAGE STABILIZER
SAWTOOTH GENERATOR
COINCIDENCE DET.

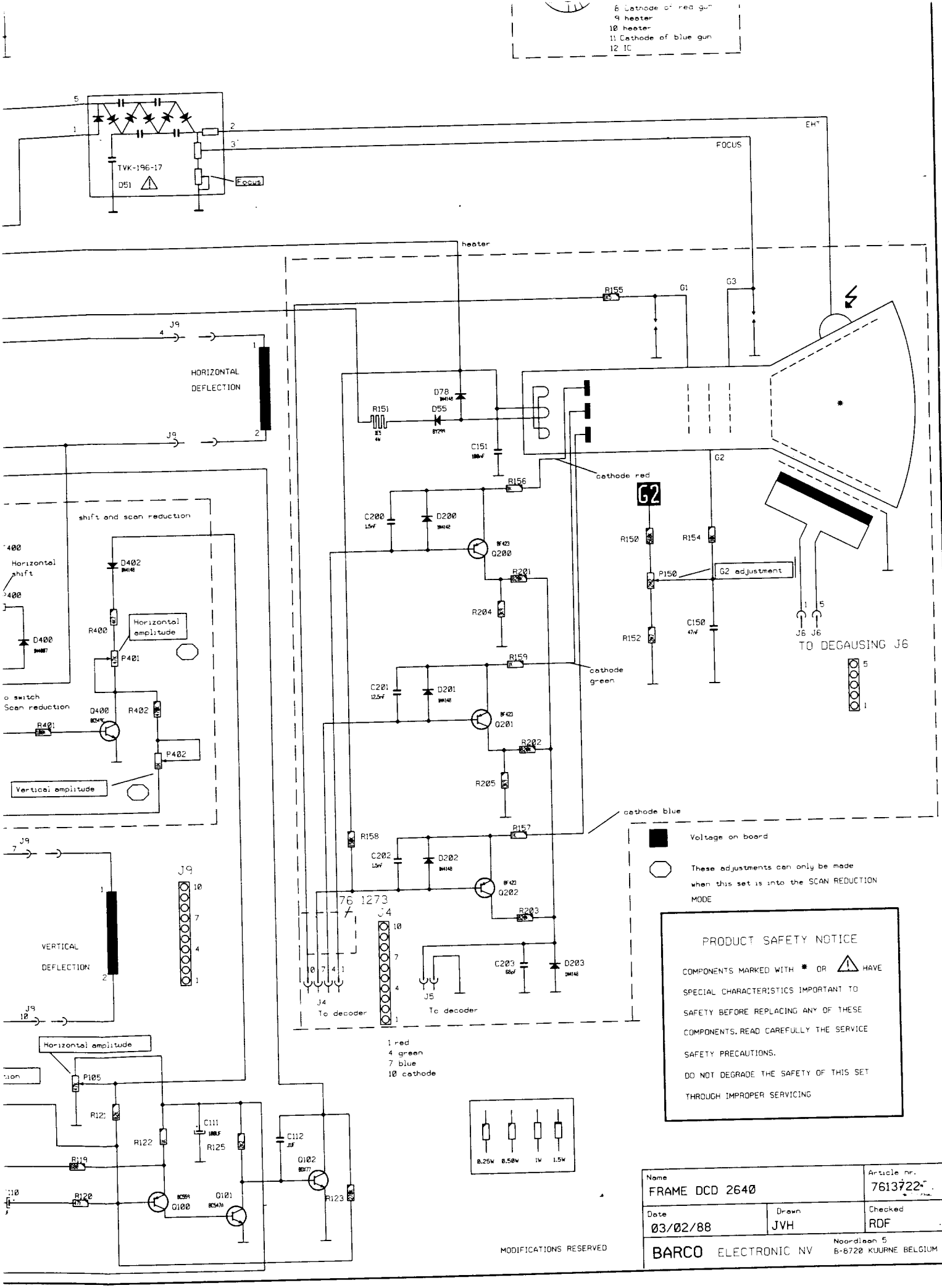

IC2
TDA4601
BASE CURRENT AMPLIFIER
COUPLING-C CHARGING CIRCUIT
BASE CURRENT SHUT-DOWN
EXT. BLOCKING ALTERNATIVES
TRIGGER START HOLD
CONTROL LOGIC
COLLECTOR CURRENT SIMULATION
CONTROL AMPLIFIER
STANDBY OPERATION
OVERLOAD IDENTIFICATION
ZERO PASSAGE IDENTIFICATION
START-UP CIRCUIT
VOLTAGE CONTROL
REFERENCE VOLTAGE
+210 V
+20 V
+9 V
HT
F1.25A
TVK-196-17
Focus
G2
G
T51
7741227
T50
773360
HORIZONTAL DEFLECTION
shift and scan reduction
Horizontal shift
Horizontal amplitude
To switch Scan reduction
IC100
TDA2653
GUARD CIRCUIT
OSCILLATOR
FREQUENCY DETECTOR
FLYBACK GENERATOR
VOLTAGE STABILIZER
SAWTOOTH GENERATOR

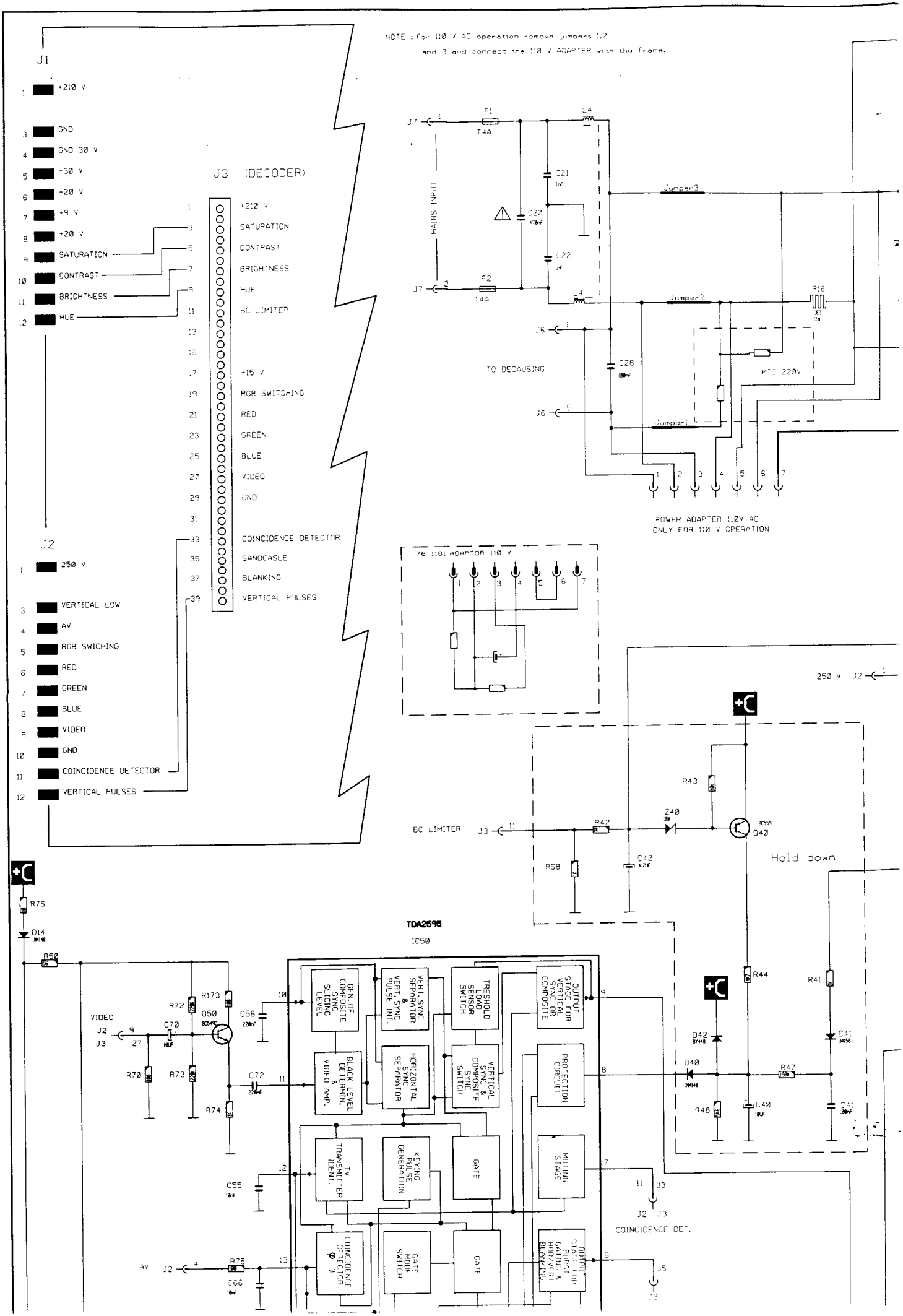

+20 V
J1
IC1
IN
GND
OUT
7815
C3
C1
D1
C6
R6
J3
+210 V
C12
D2
SR3
C8
C7
R4
L1
C2
R1
HT
D4
SR26
L2
C10
C4
+20 V
D5
SR7
C5
C30
+9 V
(BOTTOM VIEW OF BASE)
1 Grid Nr 3
4 IC
5 Grid Nr 1
6 Cathode of green gun
7 Grid Nr 5
8 Cathode of red gun
9 heater
10 heater
11 Cathode of blue gun
12 IC
TVK-196-17
D51
Focus
EHT
FOCUS
heater
R155
G1
G3
J9
HORIZONTAL
DEFLECTION
D78
R151
D55
C151
R156
cathode red
G2
shift and scan reduction
Horizontal
shift
D402
R400
Horizontal
amplitude
P401
D400
C200
D200
Q200
R201
R204
R159
cathode
green
C201
D201
Q201
R202
switch
can reduction
Q400
R402
R401
P402
R150
R154
P150
G2 adjustment
C150
R152
J6 J6
TO DEGAUSING J6


J2
250 V
VERTICAL LOW
AV
RGB SWICHING
RED
GREEN
BLUE
VIDEO
GND
COINCIDENCE DETECTOR
VERTICAL PULSES
SANDCASLE
BLANKING
VERTICAL PULSES
76 1181 ADAPTOR 110 V
250 V J2
BC LIMITER
J3
R43
R42
Z40
Q40
R68
C42
Hold down
R76
D14
R50
TDA2595
IC50
VIDEO
J2
J3
C70
R72
R175
Q50
C56
R70
R73
C72
R74
GEN. OF COMPOSITE SYNC SLICING LEVEL
BLACK LEVEL DETERMIN. & VIDEO AMP.
VERT. SYNC SEPARATOR
HORIZONTAL SYNC SEPARATOR
VERT. & VERT. SYNC PULSE INT.
TRESHOLD AND LOAD SENSOR SWITCH
VERTICAL SYNC & COMPOSITE SYNC SWITCH
OUTPUT STAGE FOR VERTICAL SYNC OR COMPOSITE
PROTECTION CIRCUIT
R44
R41
D42
D41
D40
R47
R48
C40
C41
TV TRANSMITTER IDENT.
KEYING PULSE GENERATION
GATE
MUTING STAGE
C55
J2 J3
COINCIDENCE DET.
AV
J2
R75
C66
COINCIDENCE DETECTOR φ 3
GATE MODE SWITCH
GATE
OUTPUT STAGE FOR GATING & HOR./VERT BLANKING
J3
SANDCASTLE
Horizontal frequency
VERTICAL FREQUENCY
P51
R55
R56
C50
HORIZONTAL OSCILLATOR
HORIZONTAL OUTPUT PULSE SUPPRESSION
SUPPLY VOLTAGE SENSOR
PHASE DETECTOR φ1
OSCILLATOR FREQUENCY FOSC ADJ.
OUTPUT STAGE FOR HOR. DRIVE
HOR. PULSE GENERATOR & PHASE SHIFT φ 2
PHASE DETECTOR φ 2
R57
P52
C57
R58
R45
Horizontal phase
CONTROL CURRENT SWITCH
COMPENSAT OF φ1 CONTROL ERROR
C54
R54
VOLTAGE LIMITER
LINE FLYBACK CONTROL GENERATION
C53
COINCIDENCE PULSE GENERATOR
OUTPUT STAGE FOR SPOT SUPPRESSION
R53
R52
R51
C52
C51
VOLTAGE FOLLOWER
J3
BLANKING
J3J2
VERTICAL PULSES
P98


250 V
J2
Hold down
R43
R42
Z40
Q40
R68
C42
R44
R41
D42
D41
D40
R47
R48
C40
C41
OUTPUT STAGE FOR VERTICAL SYNC COMPOSITE
PROTECTION CIRCUIT
MUTING STAGE
OUTPUT STAGE FOR BURST GATING & HOR/VERT BLANKING
SUPPLY VOLTAGE SENSOR
OUTPUT STAGE FOR HORIZONTAL DRIVE
PHASE DETECTOR φ 2
LINE FLYBACK CONTROL GENERATION
OUTPUT STAGE FOR SUPPRESSION
J2 J3
COINCIDENCE DET.
SANDCASTLE
BLANKING
R57
P50
C57
Horizontal phase
R58
R45
R100
D102
R92
D101
R98
J3J2
VERTICAL PULSES
VERTICAL FREQUENCY
P100
R109
VERTICAL LINEARITY
P106
R111
VERTICAL SHIFT
J2
VERTICAL LOW
R102
D50
C102
C101
C61
HT
R63
D56
R64
Q52
C60
T50
773360
R65
Q51
C59
R60
R61
R62
BLANKING PULSE GENERATOR
GUARD CIRCUIT
OSCILLATOR
SYNC
BUFFER
OUTPUT STAGE/ THERMAL & SHORT CIRCUIT PROTECTION
FLYBACK GENERATOR
VOLTAGE STABILIZER
R107
R108
R106
R110
C108
R112
C106
D100
R93
R94
R97
P101
R105
C107
R104
C104
C105
R96
R115

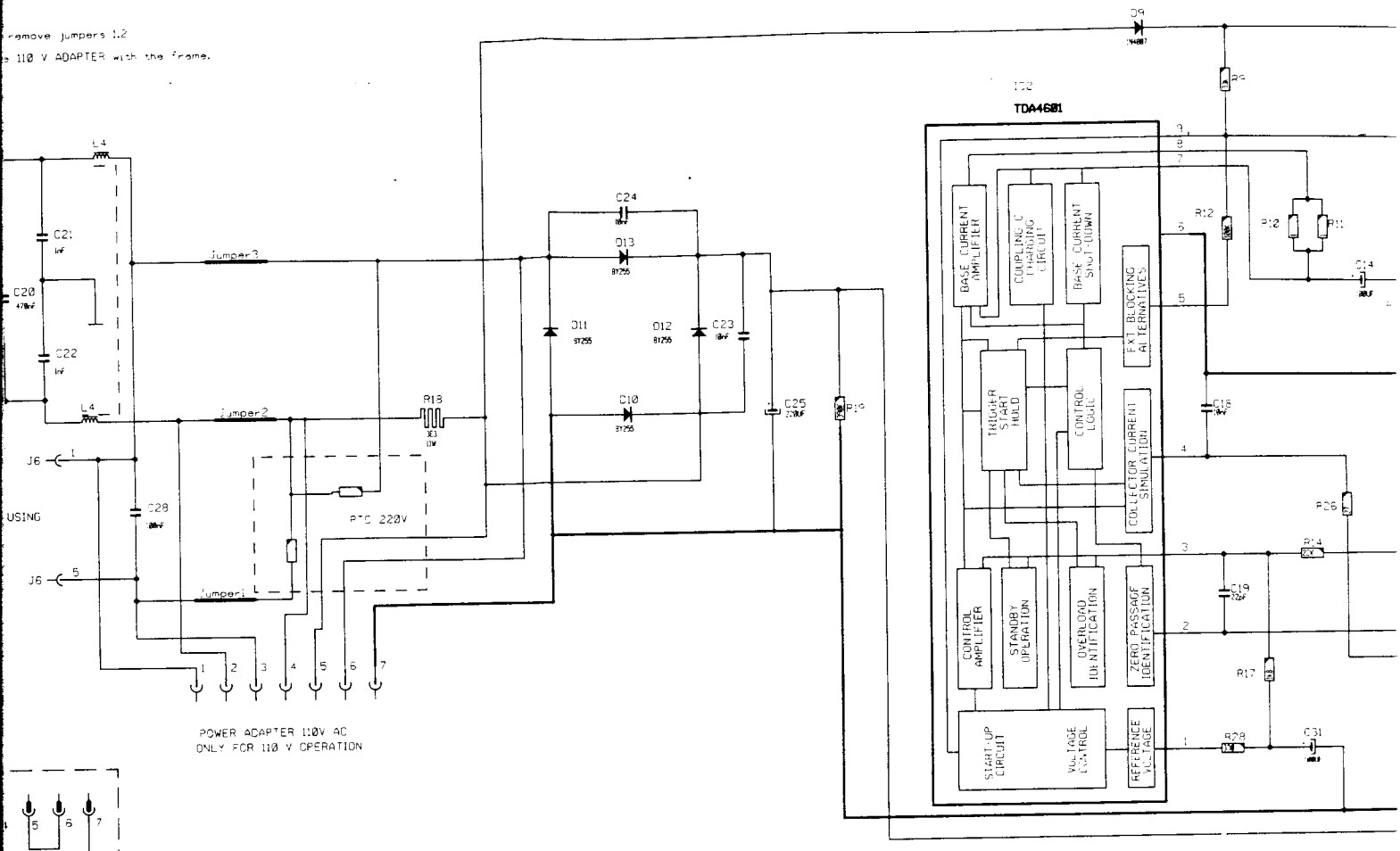

G2
G
HT
TVK-196-17
D51
Focus
T51
7741227
D50
R102
C102
C101
C61
C62
C67
R66
R67
D56
R63
R64
L5
Q52
C63
L50
R69
J9
HORIZONTAL
DEFLECTION
C60
T50
773360
R65
D52
C64
R59
C58
Q51
C59
R61
R62
D53
L100
C65
C113
R126
R151
C200
shift and scan reduction
T400
Horizontal
shift
P400
D402
D401
D400
R400
Horizontal
amplitude
P401
J8
To switch
Scan reduction
R401
Q400
R402
P402
Vertical amplitude
76 11858
IC100
TDA2653
GUARD
CIRCUIT
OSCILLATOR
FREQUENCY
DETECTOR
OUTPUT STAGE/
THERMAL &
SHORT CIRCUIT
PROTECTION
FLYBACK
GENERATOR
VOLTAGE
STABILIZER
SAWTOOTH
GENERATOR
6
7
8
9
10
11
12
13
R105
C106
C107
R104
R101
R91
C103
C104
R103
R93
C105
C100
R113
R95
C115
VERTICAL
DEFLECTION
J9
C201
R158
C202
76 1273
J4
J4
To decoder
C109
Horizontal amplitude
R114
C114
Hor PCC distortion
P105
P103
R118
R121
R96
P102
R115
Vertical
Amplitude
R116
R127
R117
R119
R122
C111
R125
C112
Q102
R123
P104
C110
R120
Trapezium distortion
Q100
Q101

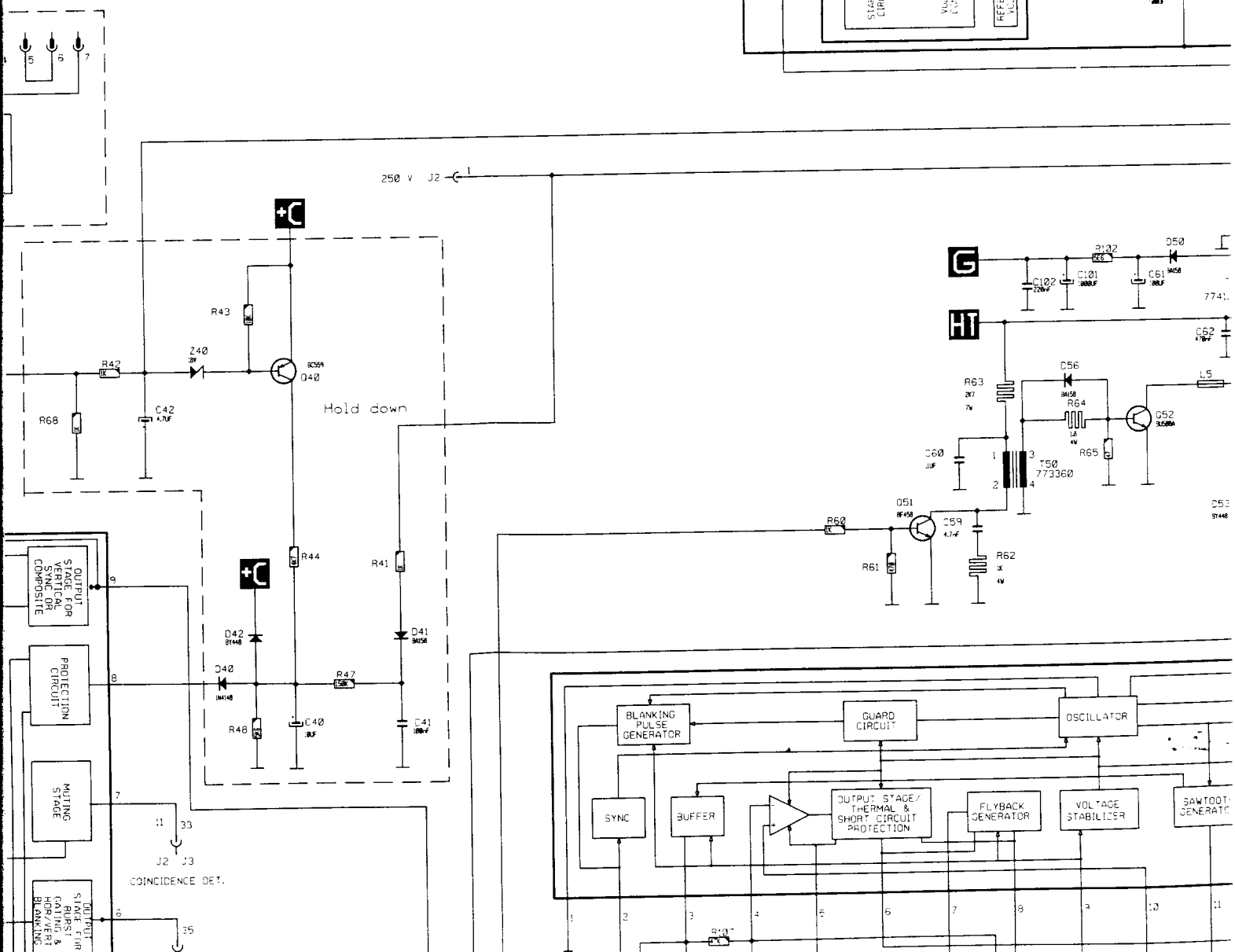

6 cathode of red gun
9 heater
10 heater
11 Cathode of blue gun
12 IC
TVK-196-17
D51
Focus
EHT
FOCUS
heater
R155
G1
G3
J9
HORIZONTAL
DEFLECTION
D78
R151
D55
C151
R156
G2
cathode red
C200
D200
Q200
R201
R204
R150
R154
P150
G2 adjustment
C150
R152
J6 J6
TO DEGAUSING J6
shift and scan reduction
D402
Horizontal
amplitude
R400
P401
D400
o switch
Scan reduction
Q400
R402
R401
P402
Vertical amplitude
R159
cathode
green
C201
D201
Q201
R202
R205
cathode blue
R158
R157
C202
D202
Q202
R203
J9
VERTICAL
DEFLECTION
76 1273
J4
J4
To decoder
J5
To decoder
C203
D203
1 red
4 green
7 blue
10 cathode
Horizontal amplitude
P105
R121
R122
C111
R125
C112
Q102
R119
R120
Q100
Q101
R123
Voltage on board
These adjustments can only be made
when this set is into the SCAN REDUCTION
MODE
PRODUCT SAFETY NOTICE
COMPONENTS MARKED WITH * OR ⚠ HAVE
SPECIAL CHARACTERISTICS IMPORTANT TO
SAFETY BEFORE REPLACING ANY OF THESE
COMPONENTS. READ CAREFULLY THE SERVICE
SAFETY PRECAUTIONS.
DO NOT DEGRADE THE SAFETY OF THIS SET
THROUGH IMPROPER SERVICING
0.25W 0.50W 1W 1.5W
MODIFICATIONS RESERVED
Name
FRAME DCD 2640
Article nr.
7613722
Date
03/02/88
Drawn
JVH
Checked
RDF
BARCO ELECTRONIC NV
Noordlaan 5
B-8720 KUURNE BELGIUM

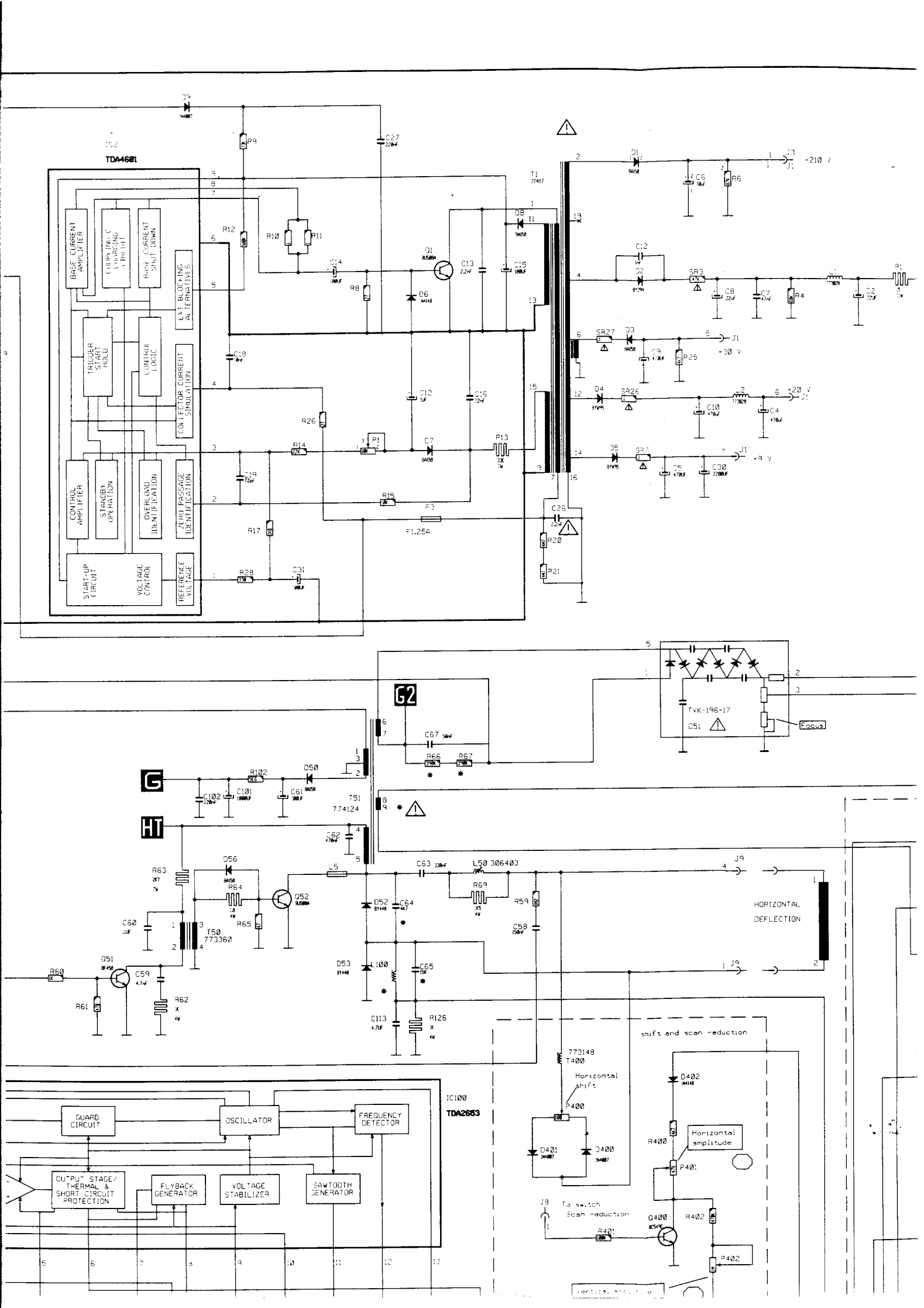

J1
1 +210 V
3 GND
4 GND 30 V
5 +30 V
6 +20 V
7 +9 V
8 +20 V
9 SATURATION
10 CONTRAST
11 BRIGHTNESS
12 HUE
J3 (DECODER)
1 +210 V
3 SATURATION
5 CONTRAST
7 BRIGHTNESS
9 HUE
11 BC LIMITER
13
15
17 +15 V
19 RGB SWITCHING
21 RED
23 GREEN
25 BLUE
27 VIDEO
29 GND
31
33 COINCIDENCE DETECTOR
35 SANDCASLE
37 BLANKING
39 VERTICAL PULSES
J2
1 250 V
3 VERTICAL LOW
4 AV
5 RGB SWICHING
6 RED
7 GREEN
8 BLUE
9 VIDEO
10 GND
11 COINCIDENCE DETECTOR
12 VERTICAL PULSES
NOTE : for 110 V AC operation remove jumpers 1,2 and 3 and connect the 110 V ADAPTER with the frame.
J7
F1 T4A
F2 T4A
MAINS INPUT
C21
C20
C22
Jumper3
Jumper2
Jumper1
R18
J6
C28
TO DEGAUSING
PTC 220V
POWER ADAPTER 110V AC
ONLY FOR 110 V OPERATION
76 1181 ADAPTOR 110 V
250 V J2
R43
Z40
BC559
Q40
BC LIMITER J3
R42
R68
C42
Hold down
TDA2595
IC50
R76
D14
R50
VIDEO
J2 J3
R72
R173
Q50
C70
R70
R73
R74
C56
C72
C55
C58
AV J2
R75
GEN. OF COMPOSITE SYNC SLICING LEVEL
VERT. SYNC SEPARATOR & VERT. SYNC PULSE INT.
TRESHOLD SENSOR SWITCH
OUTPUT STAGE FOR VERTICAL SYNC OR COMPOSITE
BLACK LEVEL DETERMIN. VIDEO AMP.
HORIZONTAL SYNC SEPARATOR
VERTICAL SYNC & COMPOSITE SYNC SWITCH
PROTECTION CIRCUIT
TV TRANSMITTER IDENT.
KEYING PULSE GENERATION
GATE
MUTING STAGE
COINCIDENCE DETECTOR
GATE MODE SWITCH
GATE
OUTPUT STAGE FOR BLANKING & HOR./VERT. BLANKING
J2 J3
COINCIDENCE DET.
R44
R41
D42
D41
D40
R47
R48
C40
C41

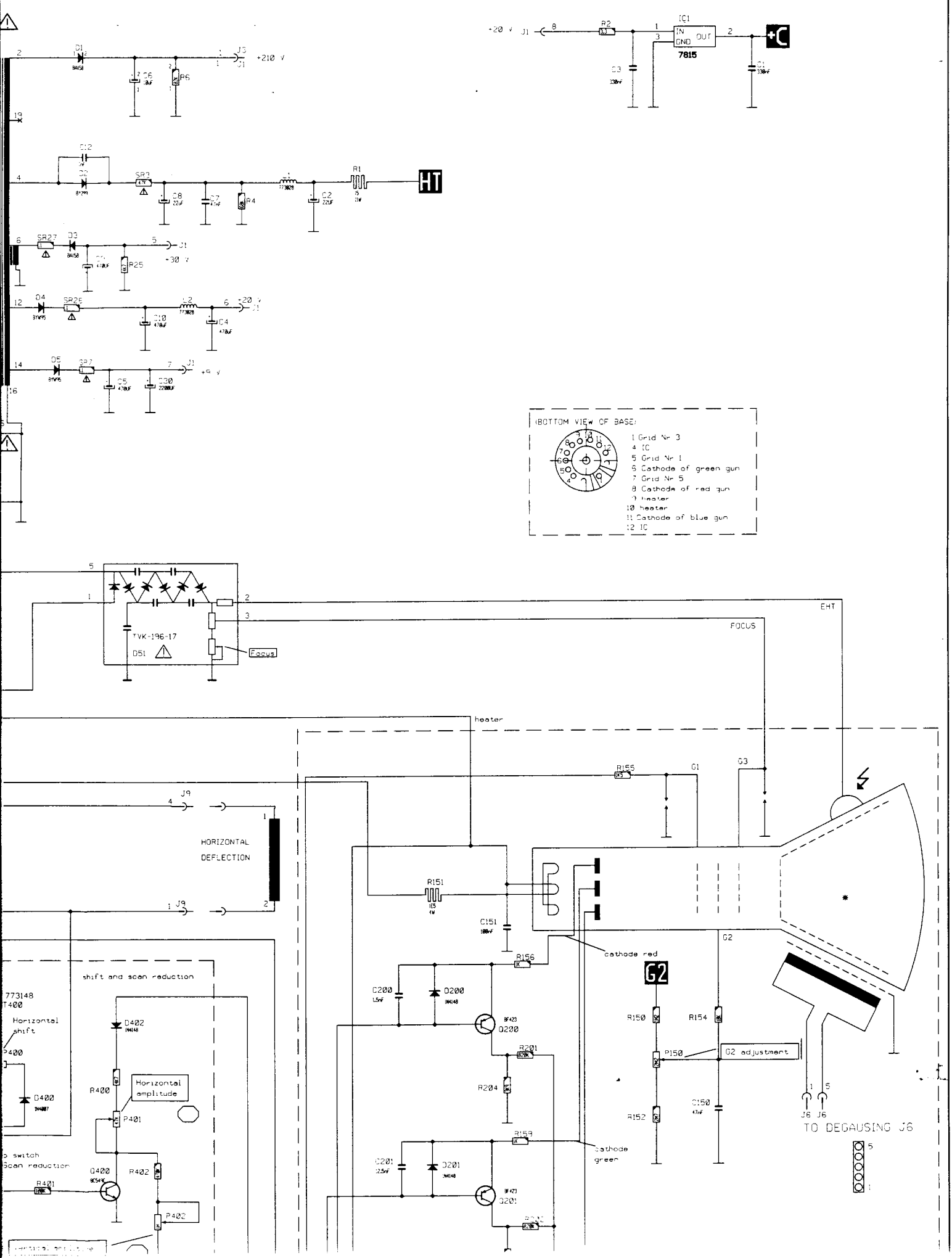
remove jumpers 1,2

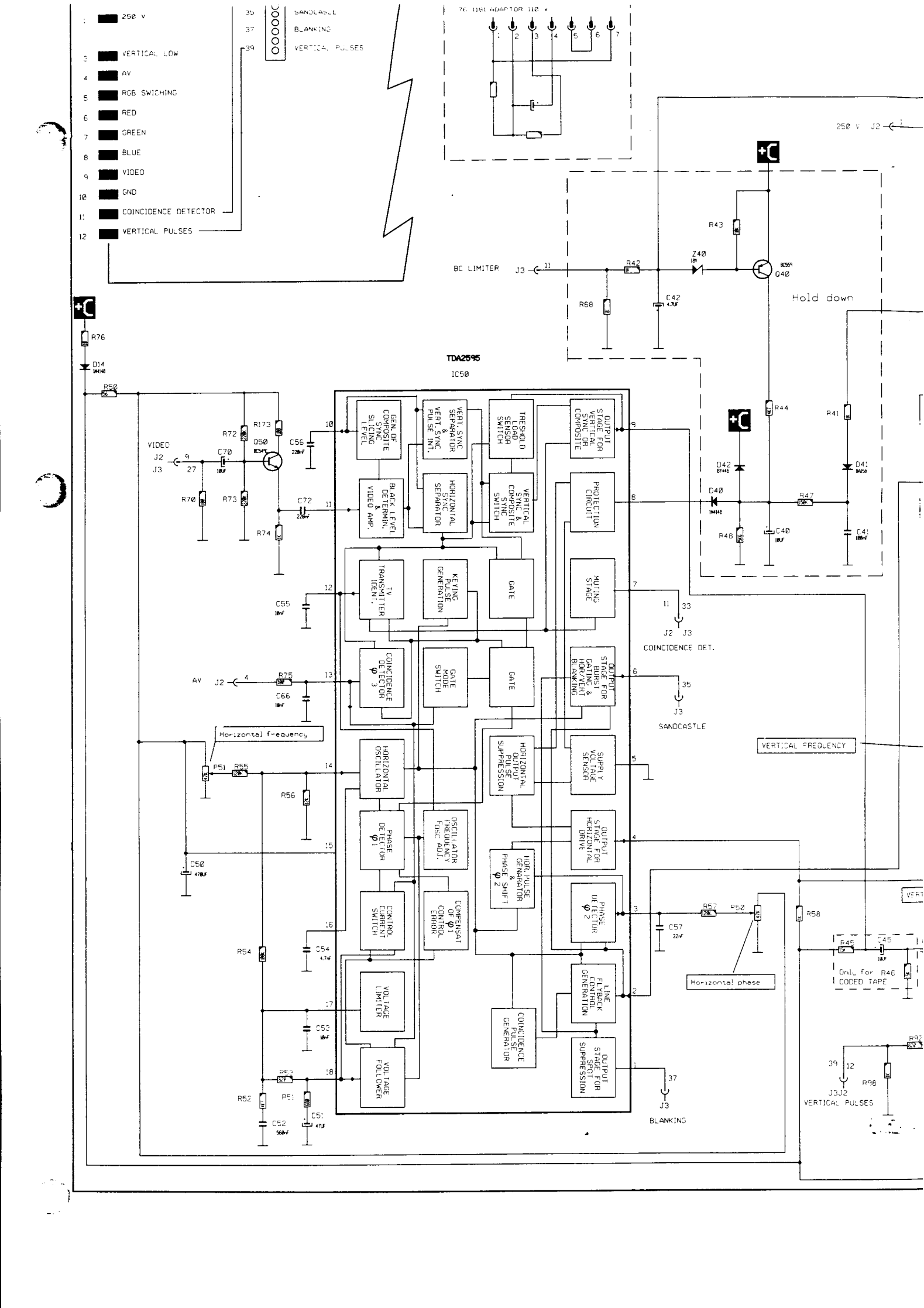
110 V ADAPTER with the frame.

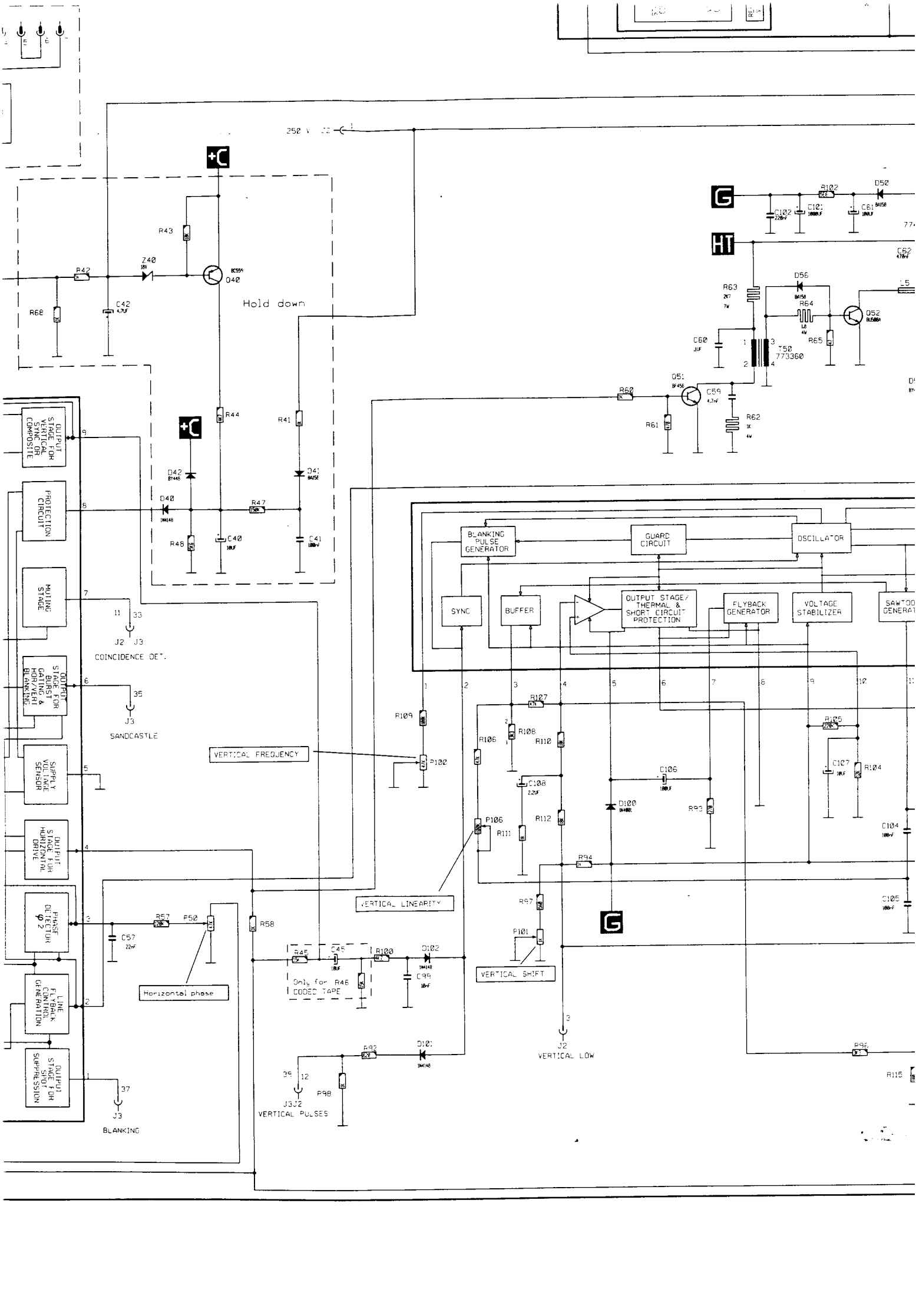


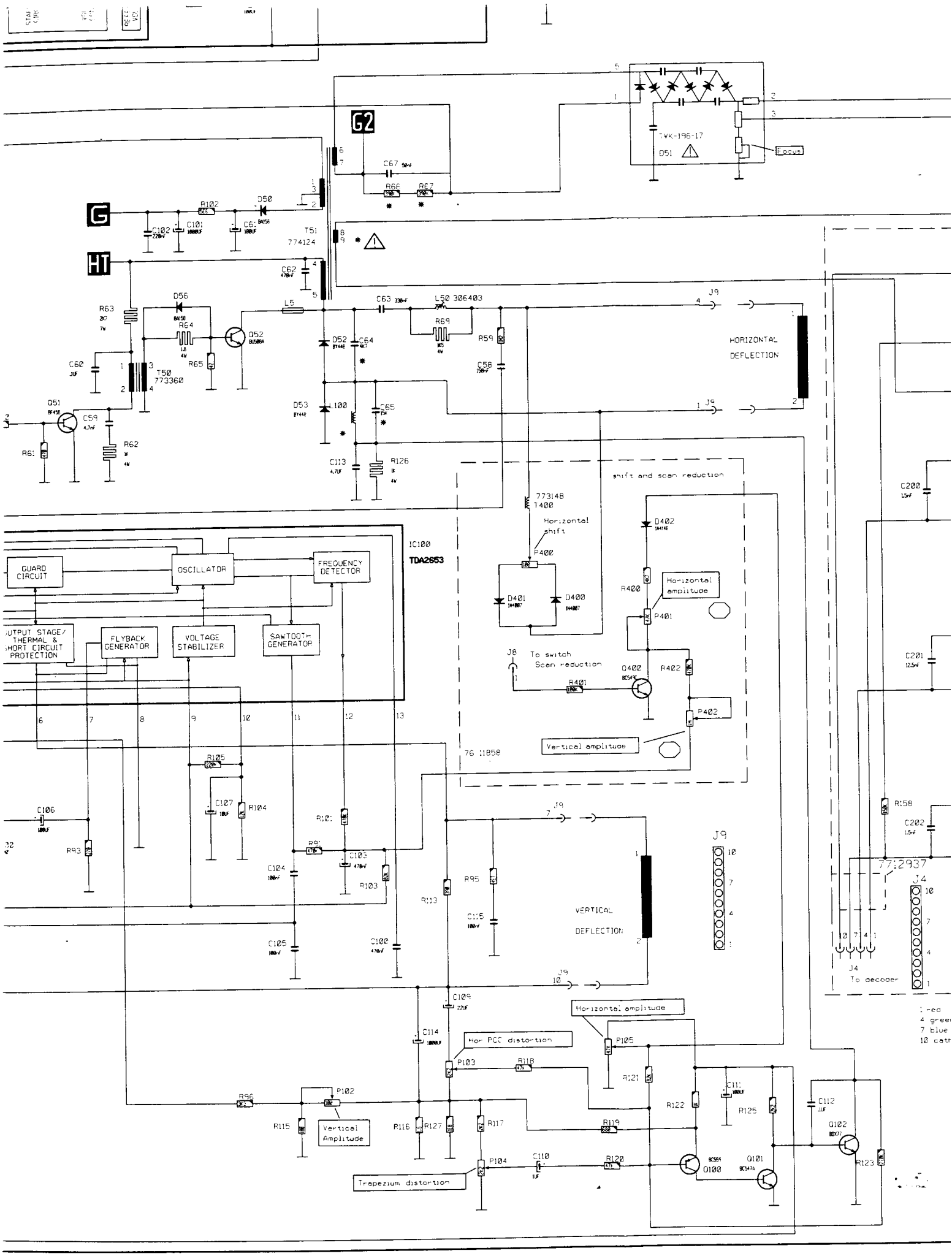


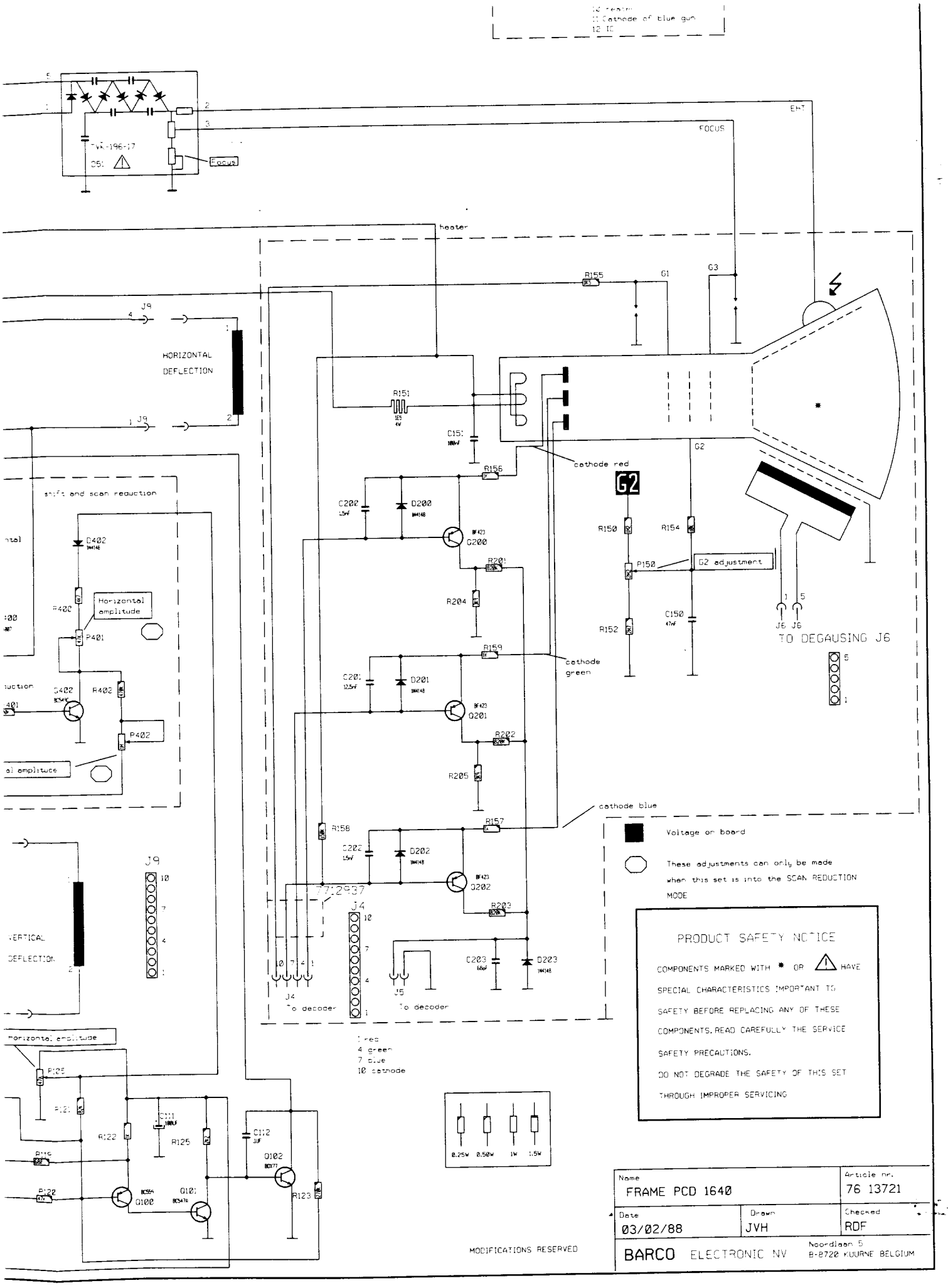

IC2
TDA4601
BASE CURRENT AMPLIFIER
COUPLING/CHARGING CIRCUIT
BASE CURRENT SHUT DOWN
TRIGGER START HOLD
CONTROL LOGIC
LX1 BLOCKING ALTERNATIVES
COLLECTOR CURRENT SIMULATION
CONTROL AMPLIFIER
STANDBY OPERATION
OVERLOAD IDENTIFICATION
ZERO PASSAGE IDENTIFICATION
START-UP CIRCUIT
VOLTAGE CONTROL
REFERENCE VOLTAGE
T1
774117
+210 V
+30 V
+20 V
+9 V
F1.25A
TVK-196-17
D51
Focus
G2
G
HT
T51
774124
T50
773360
L50 306403
HORIZONTAL DEFLECTION
IC100
TDA2653
GUARD CIRCUIT
OSCILLATOR
FREQUENCY DETECTOR
OUTPUT STAGE/ THERMAL & SHORT CIRCUIT PROTECTION
FLYBACK GENERATOR
VOLTAGE STABILIZER
SAWTOOTH GENERATOR
shift and scan reduction
773148
T400
Horizontal shift
Horizontal amplitude
To switch Scan reduction

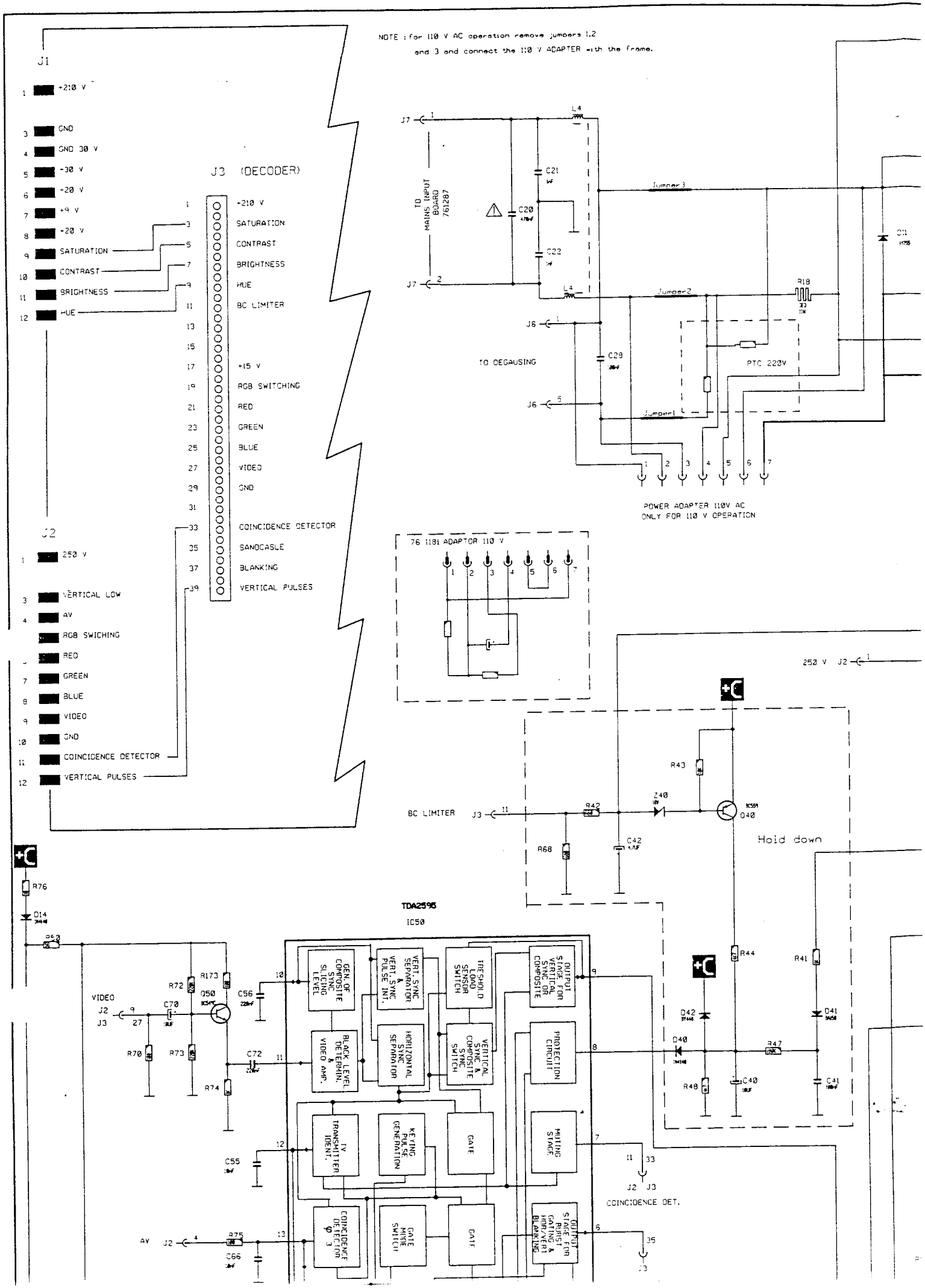

+20 V
IC1
IN
GND
OUT
7815
+C
+210 V
HT
+30 V
+20 V
+9 V
(BOTTOM VIEW OF BASE)
1 Grid Nr 3
4 IC
5 Grid Nr 1
6 Cathode of green gun
7 Grid Nr 5
8 Cathode of red gun
9 heater
10 heater
11 Cathode of blue gun
12 IC
TVK-196-17
D51
Focus
EHT
FOCUS
heater
HORIZONTAL
DEFLECTION
shift and scan reduction
Horizontal
shift
Horizontal
amplitude
cathode red
cathode
green
G2
G2 adjustment
TO DEGAUSING J6

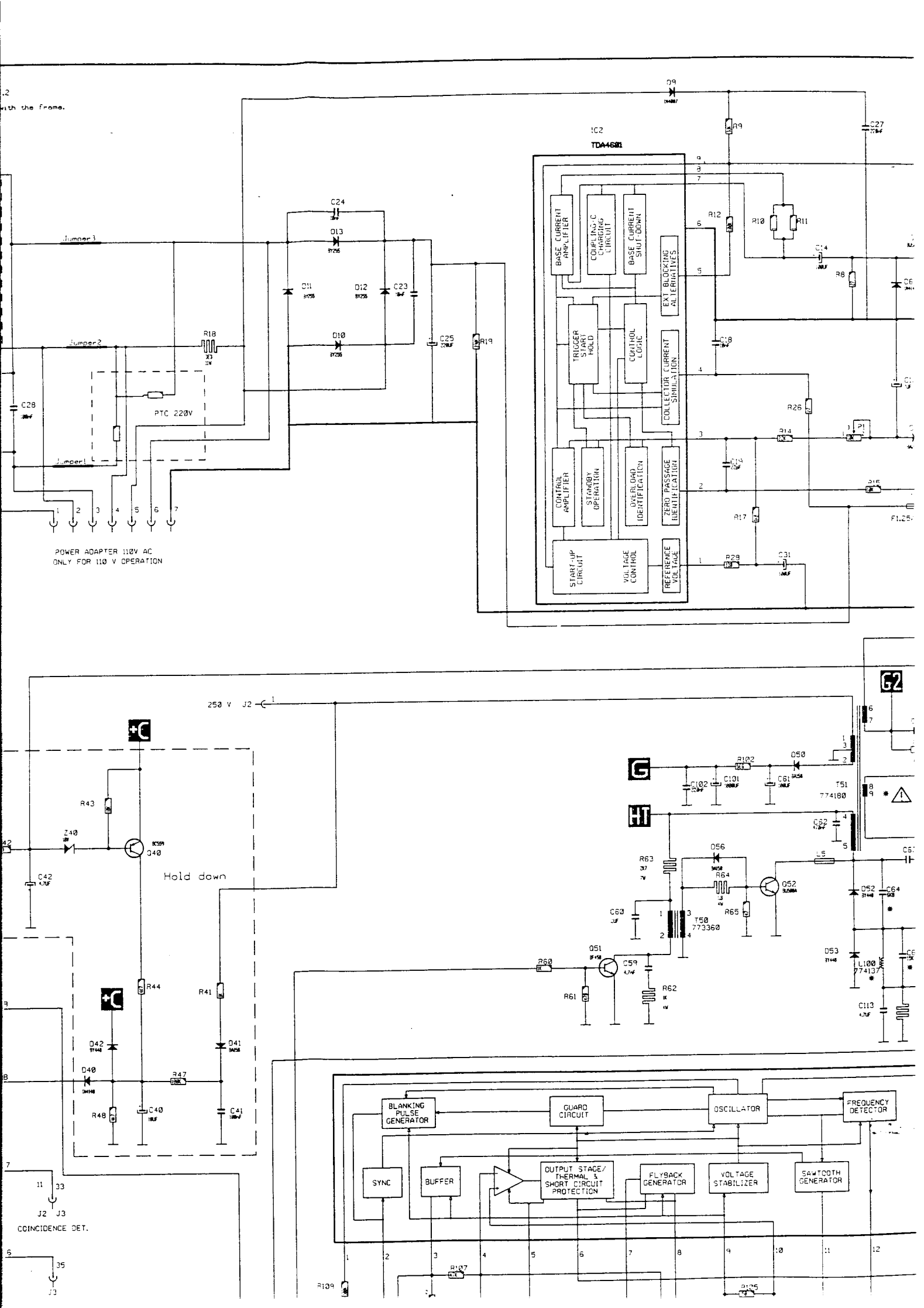

250 V
VERTICAL LOW
AV
RGB SWICHING
RED
GREEN
BLUE
VIDEO
GND
COINCIDENCE DETECTOR
VERTICAL PULSES
SANDCASTLE
BLANKING
VERTICAL PULSES
TO TEST ADAPTOR 110 V
BC LIMITER
Hold down
TDA2595
IC50
VIDEO
AV
Horizontal frequency
VERTICAL FREQUENCY
Horizontal phase
COINCIDENCE DET.
SANDCASTLE
BLANKING
VERTICAL PULSES
Only for R46 CODED TAPE
GEN. OF COMPOSITE SYNC SLICING LEVEL
VERT. SYNC SEPARATOR & VERT. SYNC PULSE INT.
TRESHOLD LEVEL SENSOR SWITCH
OUTPUT STAGE FOR VERTICAL SYNC OR COMPOSITE
BLACK LEVEL DETERMIN. VIDEO AMP.
HORIZONTAL SYNC SEPARATOR
VERTICAL SYNC & COMPOSITE SYNC SWITCH
PROTECTION CIRCUIT
TV TRANSMITTER IDENT.
KEYING PULSE GENERATION
GATE
MUTING STAGE
COINCIDENCE DETECTOR φ 3
GATE MODE SWITCH
GATE
OUTPUT STAGE FOR BURST & KEYING PULSE & BLANKING
HORIZONTAL OSCILLATOR
HORIZONTAL OUTPUT PULSE SUPPRESSION
SUPPLY VOLTAGE SENSOR
PHASE DETECTOR φ 1
OSCILLATOR FREQUENCY Fosc ADJ.
HOR. PULSE GENARATOR PHASE & φ 2 SHIFT
OUTPUT STAGE FOR HORIZONTAL DRIVE
CONTROL CURRENT SWITCH
COMPENSAT OF φ 1 CONTROL ERROR
PHASE DETECTOR φ 2
VOLTAGE LIMITER
LINE FLYBACK CONTROL GENERATION
COINCIDENCE PULSE GENERATOR
VOLTAGE FOLLOWER
OUTPUT STAGE FOR SUPPRESSION

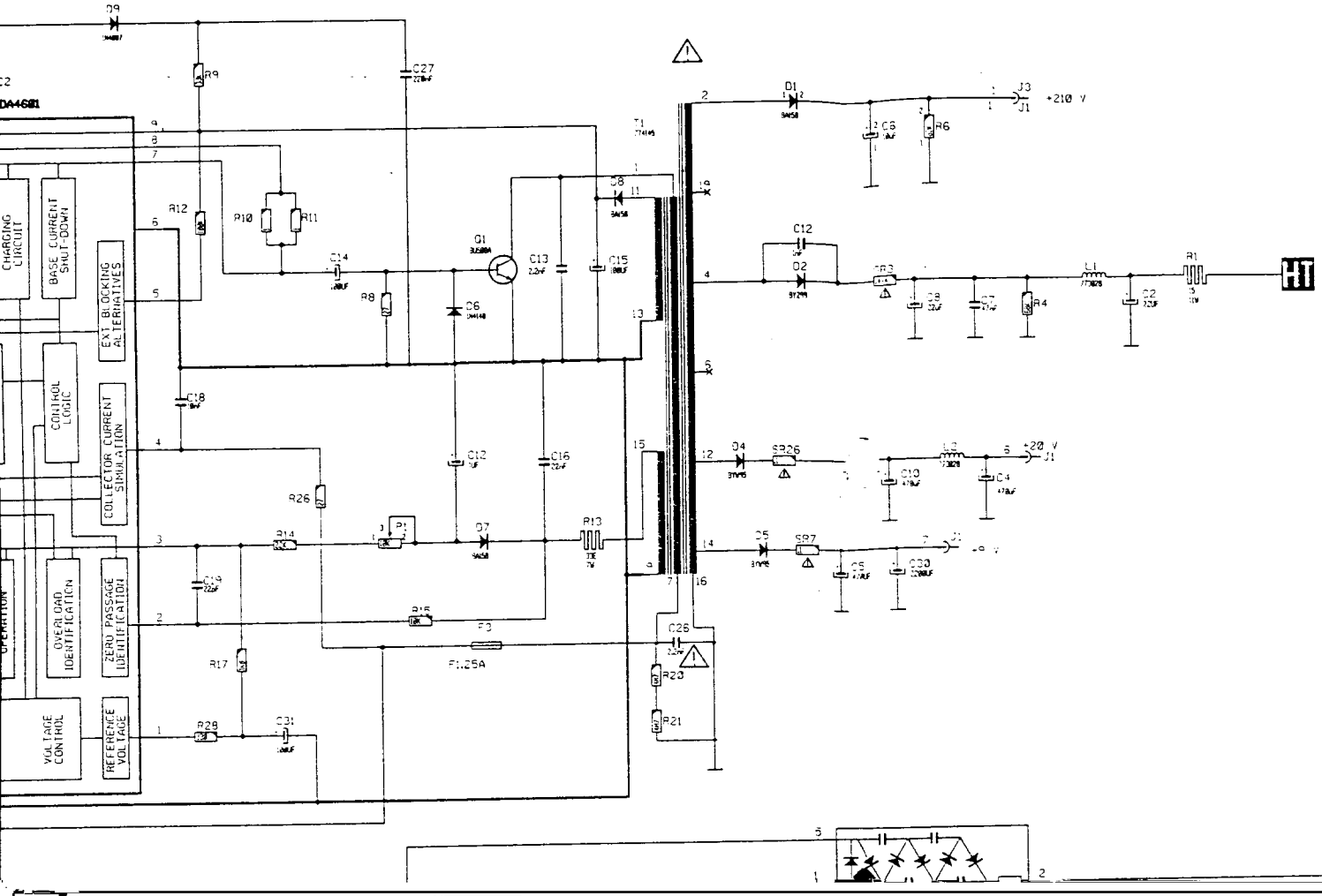

+C
R43
R42
Z40
Q40
R68
C42
Hold down
R44
R41
D42
D41
D40
R47
R48
C40
C41
OUTPUT STAGE FOR VERT. SAW TOOTH SYNC OR COMPOSITE
PROTECTION CIRCUIT
MUTING STAGE
OUTPUT STAGE FOR BURST GATING & HOR/VERT BLANKING
SUPPLY VOLTAGE SENSOR
OUTPUT STAGE FOR HORIZONTAL DRIVE
PHASE DETECTOR φ 2
LINE FLYBACK CONTROL GENERATION
OUTPUT STAGE FOR SUPPRESSION
J2 J3
COINCIDENCE DET.
SANDCASTLE
BLANKING
Horizontal phase
R57
P50
C57
R58
R45
C45
R100
D102
C99
Only for R46 CODED TAPE
R93
D101
P98
J3J2
VERTICAL PULSES
VERTICAL FREQUENCY
P100
R109
VERTICAL LINEARITY
P106
R111
R97
P101
VERTICAL SHIFT
J2
VERTICAL LOW
BLANKING PULSE GENERATOR
GUARD CIRCUIT
OSCILLATOR
SYNC
BUFFER
OUTPUT STAGE/ THERMAL & SHORT CIRCUIT PROTECTION
FLYBACK GENERATOR
VOLTAGE STABILIZER
R107
R108
R110
R106
C108
R112
R94
C106
D100
R93
R105
C107
R104
C104
C105
R95
R115
R102
D50
C102
C101
C61
C62
HT
R63
D56
R64
Q52
C60
R65
T50 773360
Q51
C59
R60
R61
R62

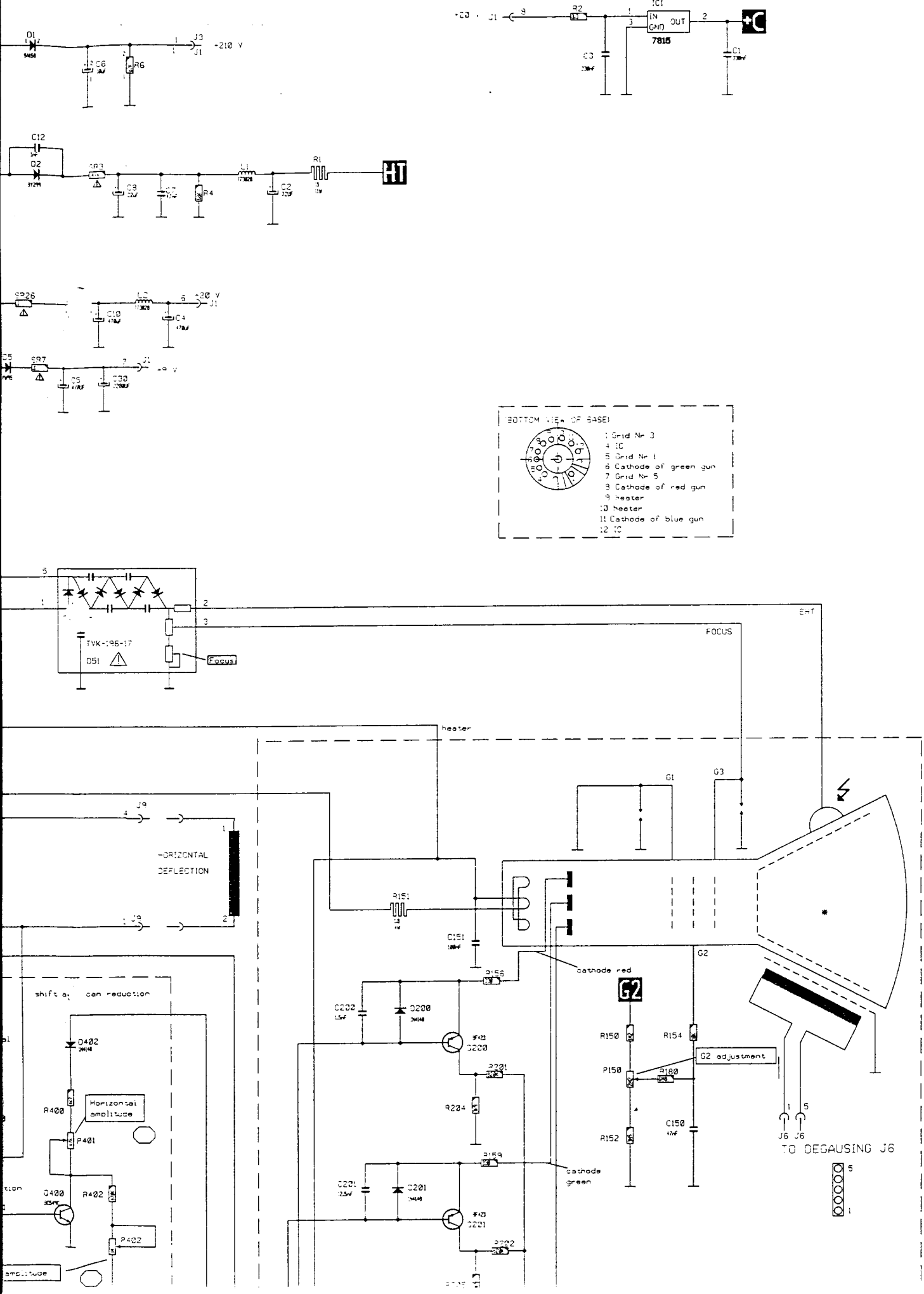

G2
G
HT
T51
774124
T50
773360
D51
TVK-196-17
Focus
HORIZONTAL
DEFLECTION
VERTICAL
DEFLECTION
shift and scan reduction
773148
T400
Horizontal
shift
P400
Horizontal
amplitude
P401
To switch
Scan reduction
Vertical amplitude
76 11858
IC100
TDA2653
GUARD
CIRCUIT
OSCILLATOR
FREQUENCY
DETECTOR
FLYBACK
GENERATOR
VOLTAGE
STABILIZER
SAWTOOTH
GENERATOR
Horizontal amplitude
Hor PCC distortion
Vertical
Amplitude
Trapezium distortion
J4
To decoder
772937

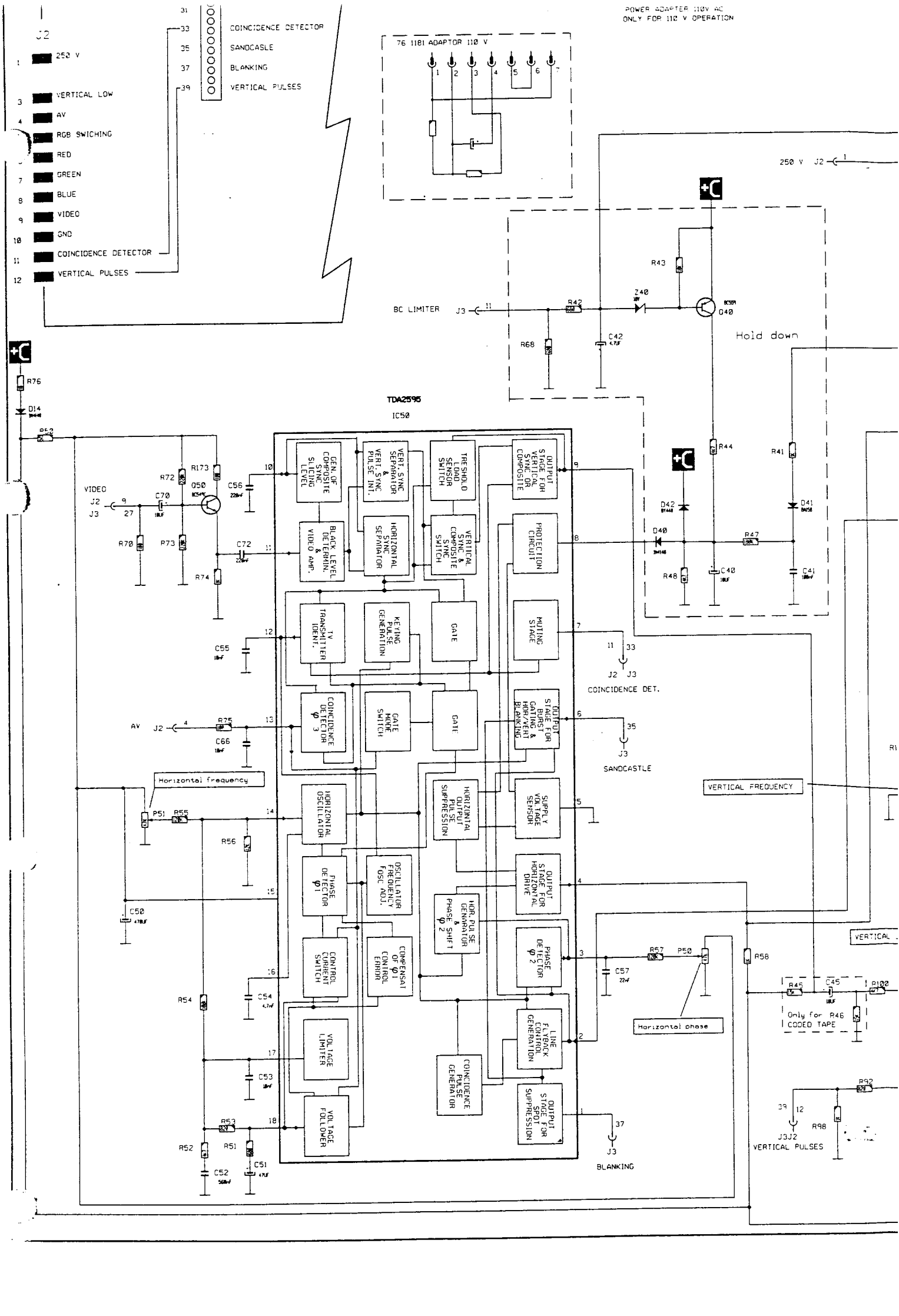

11 cathode of blue gun
12 IC
EHT
FOCUS
TVR-196-17
D5:
Focus
heater
R155
G1
G3
J9
HORIZONTAL
DEFLECTION
R151
C15:
G2
cathode red
R156
C200
D200
Q200
R201
R204
R150
R154
P150
G2 adjustment
C150
R152
J6 J6
TO DEGAUSING J6
shift and scan reduction
D402
R400
Horizontal
amplitude
P401
Q402
R402
P402
R159
C201
D201
Q201
R202
R205
cathode
green
cathode blue
R158
R157
C202
D202
Q202
R203
77:2937
J4
J5
To decoder
To decoder
C203
D203
J9
VERTICAL
DEFLECTION
Horizontal amplitude
R125
R121
R122
C111
C112
Q102
Q100
Q101
R123
R116
R120
1 red
4 green
7 blue
10 cathode
0.25W 0.50W 1W 1.5W
Voltage on board
These adjustments can only be made
when this set is into the SCAN REDUCTION
MODE
PRODUCT SAFETY NOTICE
COMPONENTS MARKED WITH * OR ⚠ HAVE
SPECIAL CHARACTERISTICS IMPORTANT TO
SAFETY BEFORE REPLACING ANY OF THESE
COMPONENTS, READ CAREFULLY THE SERVICE
SAFETY PRECAUTIONS.
DO NOT DEGRADE THE SAFETY OF THIS SET
THROUGH IMPROPER SERVICING
MODIFICATIONS RESERVED
Name
FRAME PCD 1640
Article nr.
76 13721
Date
03/02/88
Drawn
JVH
Checked
RDF
BARCO ELECTRONIC NV
Noordlaan 5
B-8720 KUURNE BELGIUM

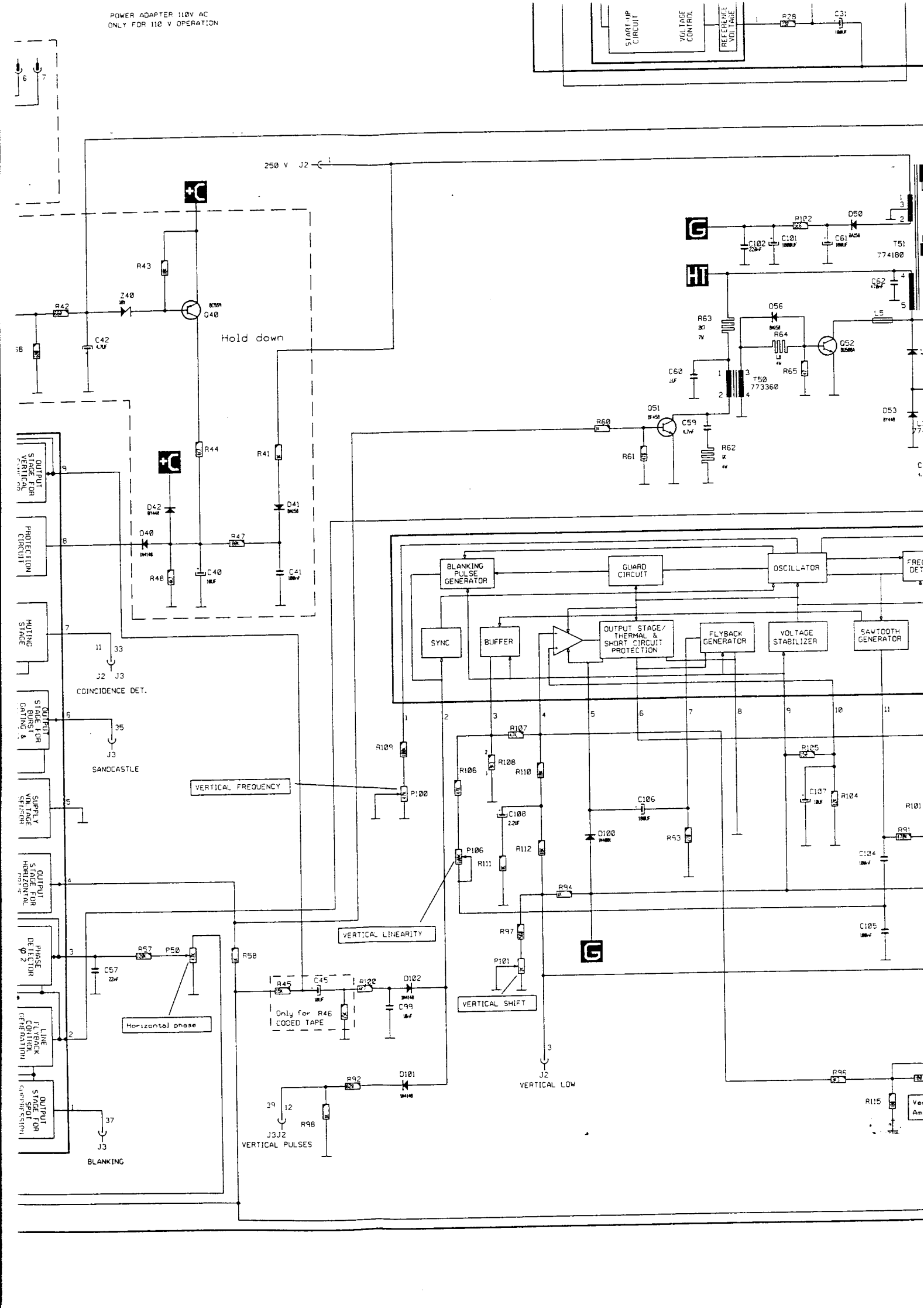

NOTE : for 110 V AC operation remove jumpers 1,2 and 3 and connect the 110 V ADAPTER with the frame.
J1
+210 V
GND
GND 30 V
-30 V
-20 V
+9 V
+20 V
SATURATION
CONTRAST
BRIGHTNESS
HUE
J3 (DECODER)
+210 V
SATURATION
CONTRAST
BRIGHTNESS
HUE
BC LIMITER
+15 V
RGB SWITCHING
RED
GREEN
BLUE
VIDEO
GND
COINCIDENCE DETECTOR
SANDCASLE
BLANKING
VERTICAL PULSES
J2
250 V
VERTICAL LOW
AV
RGB SWICHING
RED
GREEN
BLUE
VIDEO
GND
COINCIDENCE DETECTOR
VERTICAL PULSES
TO MAINS INPUT BOARD 761287
TO DEGAUSING
PTC 220V
Jumper 1
Jumper 2
Jumper 3
POWER ADAPTER 110V AC
ONLY FOR 110 V OPERATION
76 1181 ADAPTOR 110 V
250 V
BC LIMITER
Hold down
TDA2595
IC50
VIDEO
AV
COINCIDENCE DET.
GEN. OF COMPOSITE SYNC SLICING LEVEL
VERT. SYNC SEPARATOR
VERT. & SYNC PULSE INT.
TRESHOLD LOAD SENSOR SWITCH
OUTPUT STAGE FOR VERTICAL SYNC OR COMPOSITE
BLACK LEVEL DETERMIN. VIDEO AMP.
HORIZONTAL SYNC SEPARATOR
VERTICAL SYNC & COMPOSITE SYNC SWITCH
PROTECTION CIRCUIT
TV TRANSMITTER IDENT.
KEYING PULSE GENERATION
GATE
MUTING STAGE
COINCIDENCE DETECTION φ 3
GATE MODE SWITCH
GATE
OUTPUT STAGE FOR BURST & VERT. BLANKING

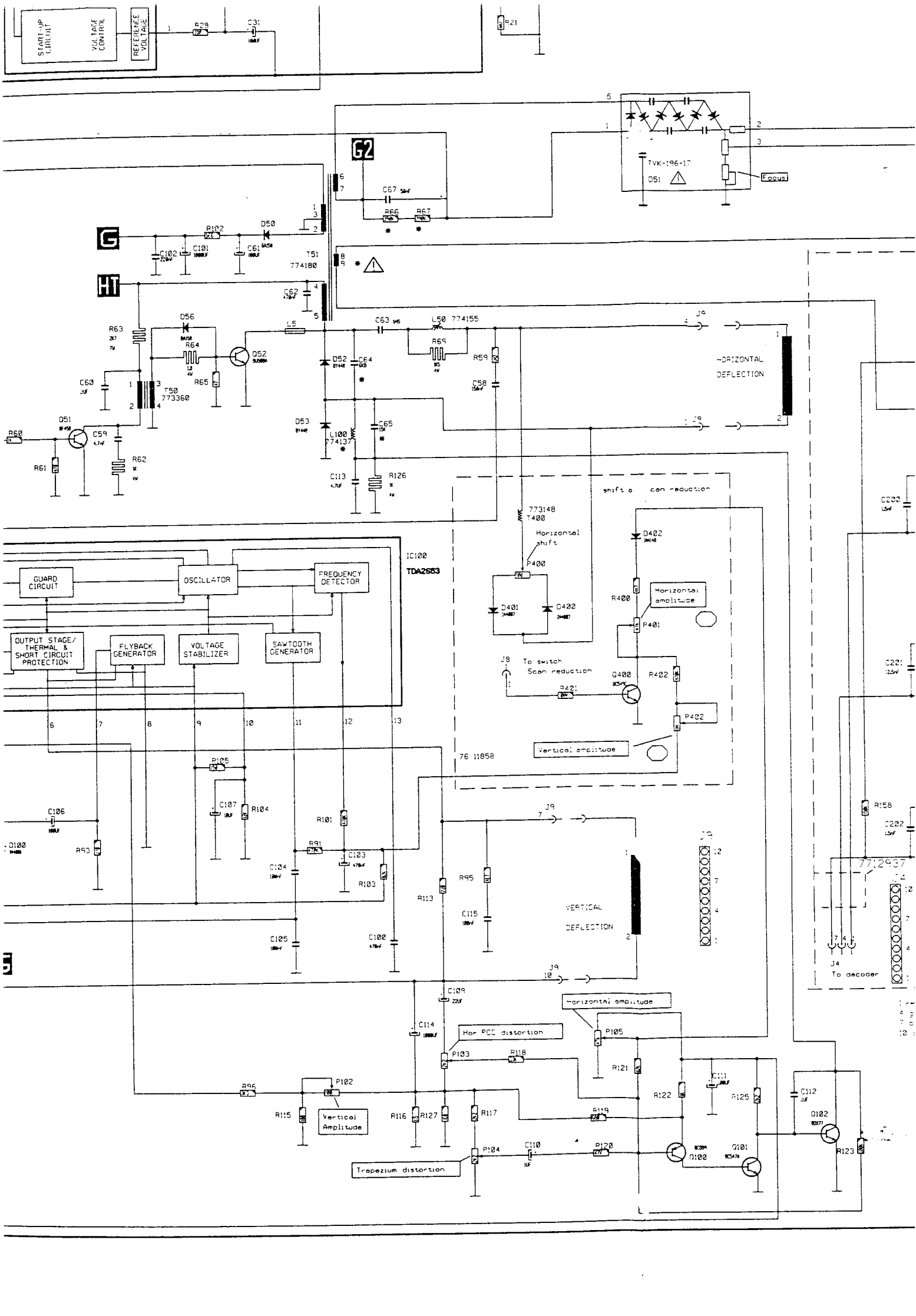

.2
ith the frame.
IC2
TDA4601
BASE CURRENT AMPLIFIER
COUPLING-C CHARGING CIRCUIT
BASE CURRENT SHUT-DOWN
EXT BLOCKING ALTERNATIVES
TRIGGER START HOLD
CONTROL LOGIC
COLLECTOR CURRENT SIMULATION
CONTROL AMPLIFIER
STANDBY OPERATION
OVERLOAD IDENTIFICATION
ZERO PASSAGE IDENTIFICATION
START-UP CIRCUIT
VOLTAGE CONTROL
REFERENCE VOLTAGE
Jumper3
Jumper2
Jumper1
PTC 220V
POWER ADAPTER 110V AC
ONLY FOR 110 V OPERATION
250 V J2
Hold down
T51 774180
T50 773360
L100 774137
BLANKING PULSE GENERATOR
GUARD CIRCUIT
OSCILLATOR
FREQUENCY DETECTOR
SYNC
BUFFER
OUTPUT STAGE/ THERMAL & SHORT CIRCUIT PROTECTION
FLYBACK GENERATOR
VOLTAGE STABILIZER
SAWTOOTH GENERATOR
COINCIDENCE DET.

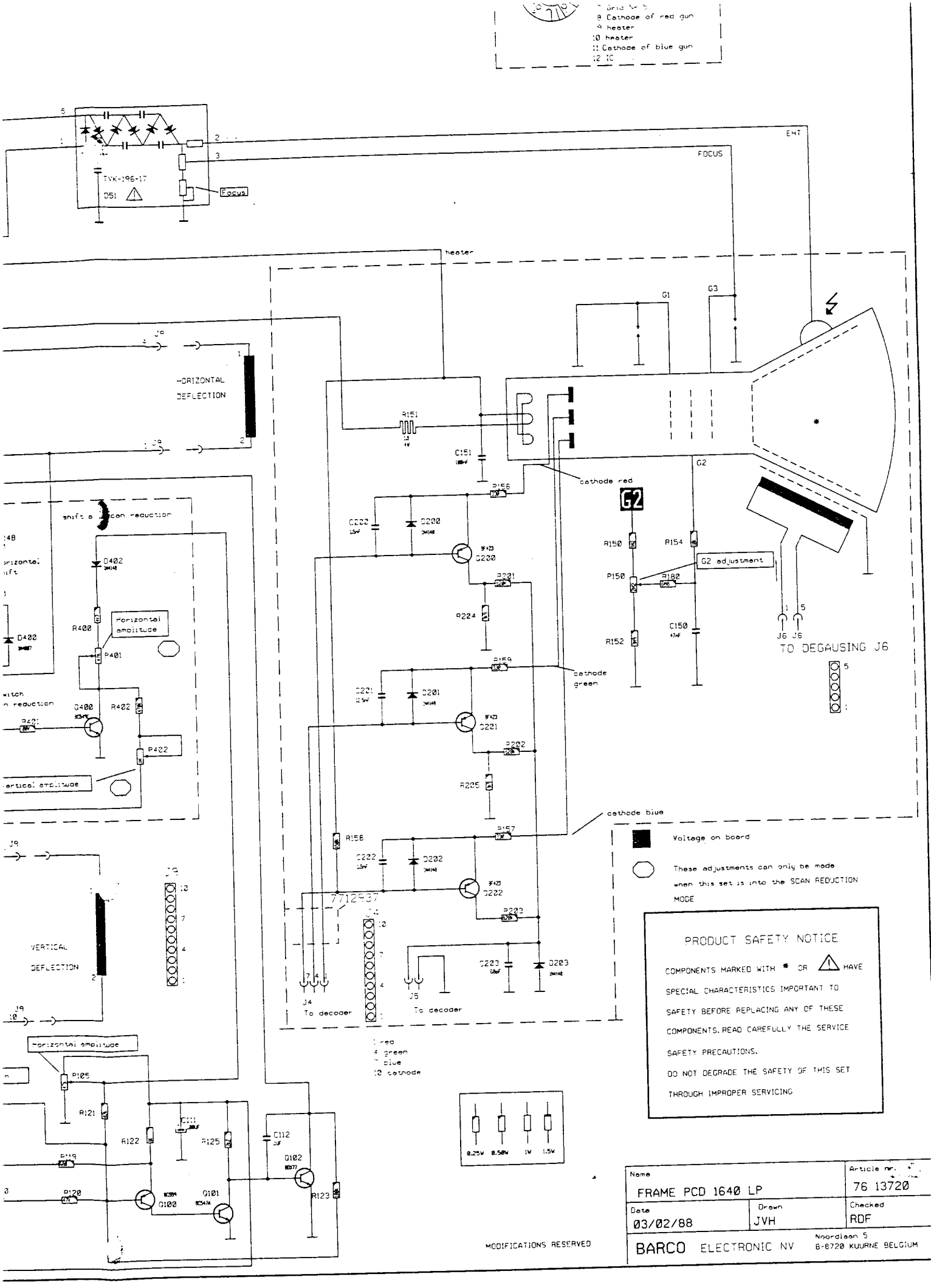

CHARGING CIRCUIT
BASE CURRENT SHUT-DOWN
EXT BLOCKING ALTERNATIVES
CONTROL LOGIC
COLLECTOR CURRENT SIMULATION
OVERLOAD IDENTIFICATION
ZERO PASSAGE IDENTIFICATION
VOLTAGE CONTROL
REFERENCE VOLTAGE
+210 V
+20 V
F1.25A

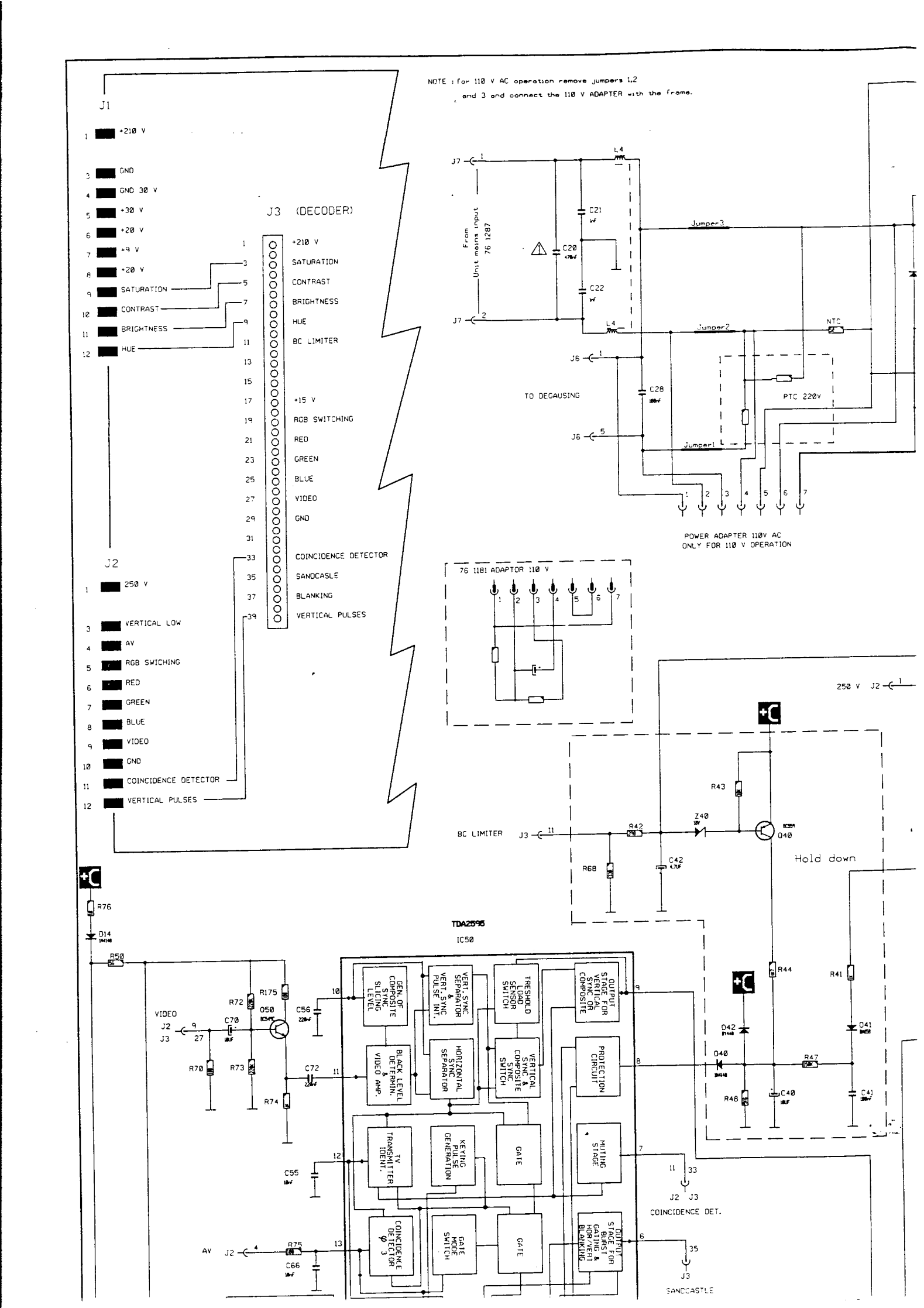

D1
J3
J1
+210 V
C6
R6
+20 V
J1
IC1
IN
GND
OUT
7815
C3
C1
C12
D2
R3
L1
R1
HT
C3
C7
R4
C2
SR26
L2
+20 V
J1
C10
C4
C5
SR7
J1
C6
C33
BOTTOM VIEW OF BASE)
1 Grid Nr 3
4 IC
5 Grid Nr 1
6 Cathode of green gun
7 Grid Nr 5
8 Cathode of red gun
9 heater
10 heater
11 Cathode of blue gun
12 IC
TVK-196-17
D51
Focus
EHT
FOCUS
heater
J9
HORIZONTAL
DEFLECTION
J9
G1
G3
R151
C151
R156
cathode red
G2
C202
D200
Q202
R150
R154
G2 adjustment
P150
R180
R204
C150
R152
J6 J6
TO DEGAUSING J6
R159
cathode
green
C201
D201
Q201
R202
shift a
can reduction
D402
R400
Horizontal
amplitude
P401
Q400
R402
P402
amplitude


POWER ADAPTER 110V AC
ONLY FOR 110 V OPERATION
76 1181 ADAPTOR 110 V
250 V
VERTICAL LOW
AV
RGB SWICHING
RED
GREEN
BLUE
VIDEO
GND
COINCIDENCE DETECTOR
VERTICAL PULSES
COINCIDENCE DETECTOR
SANDCASLE
BLANKING
VERTICAL PULSES
BC LIMITER
Hold down
TDA2595
IC50
GEN. OF COMPOSITE SYNC SLICING LEVEL
VERT. SYNC SEPARATOR & VERT. SYNC PULSE INT.
TRESHOLD LOAD SENSOR SWITCH
OUTPUT STAGE FOR VERTICAL SYNC OR COMPOSITE
BLACK LEVEL DETERMIN. VIDEO & AMP.
HORIZONTAL SYNC SEPARATOR
VERTICAL SYNC & COMPOSITE SYNC SWITCH
PROTECTION CIRCUIT
TV TRANSMITTER IDENT.
KEYING PULSE GENERATION
GATE
MUTING STAGE
COINCIDENCE DETECTOR φ 3
GATE MODE SWITCH
GATE
OUTPUT STAGE FOR BURST GATING & HOR/VERT BLANKING
HORIZONTAL OSCILLATOR
HORIZONTAL OUTPUT PULSE SUPPRESSION
SUPPLY VOLTAGE SENSOR
PHASE DETECTOR φ 1
OSCILLATOR FREQUENCY fosc ADJ.
HOR. PULSE GENERATOR PHASE SHIFT φ 2
OUTPUT STAGE FOR HORIZONTAL DRIVE
CONTROL CURRENT SWITCH
COMPENSAT OF φ 1 CONTROL ERROR
PHASE DETECTOR φ 2
VOLTAGE LIMITER
LINE FLYBACK CONTROL GENERATION
VOLTAGE FOLLOWER
COINCIDENCE PULSE GENERATOR
OUTPUT STAGE FOR SPOT SUPPRESSION
VIDEO
AV
Horizontal frequency
VERTICAL FREQUENCY
Horizontal phase
Only for R46 CODED TAPE
COINCIDENCE DET.
SANDCASTLE
BLANKING
VERTICAL PULSES
VERTICAL


POWER ADAPTER 110V AC
ONLY FOR 110 V OPERATION
250 V J2
Hold down
R43
R42
Z40
Q40
C42
R44
R41
D42
D41
D40
R47
R48
C40
C41
OUTPUT STAGE FOR VERTICAL
PROTECTION CIRCUIT
MUTING STAGE
J2 J3
COINCIDENCE DET.
OUTPUT STAGE FOR BURST GATING &
J3
SANDCASTLE
SUPPLY VOLTAGE SECTION
OUTPUT STAGE FOR HORIZONTAL
PHASE DETECTOR Φ 2
LINE FLYBACK CONTROL GENERATION
OUTPUT STAGE FOR SPOT
J3
BLANKING
VERTICAL FREQUENCY
P100
R109
R107
R108
R106
R110
C108
R112
P106
R111
C106
D100
R93
R94
R97
P101
VERTICAL SHIFT
VERTICAL LINEARITY
R57
P50
R58
C57
Horizontal phase
R45
C45
R102
D102
C99
Only for R46
CODED TAPE
R92
D101
R98
J3J2
VERTICAL PULSES
J2
VERTICAL LOW
R96
R115
BLANKING PULSE GENERATOR
GUARD CIRCUIT
OSCILLATOR
SYNC
BUFFER
OUTPUT STAGE/ THERMAL & SHORT CIRCUIT PROTECTION
FLYBACK GENERATOR
VOLTAGE STABILIZER
SAWTOOTH GENERATOR
R102
D50
C102
C101
C61
T51
774180
C62
D56
R63
R64
Q52
C60
R65
T50
773360
Q51
C59
R60
R61
R62
D53
L5
START-UP CIRCUIT
VOLTAGE CONTROL
REFERENCE VOLTAGE
R28
C31

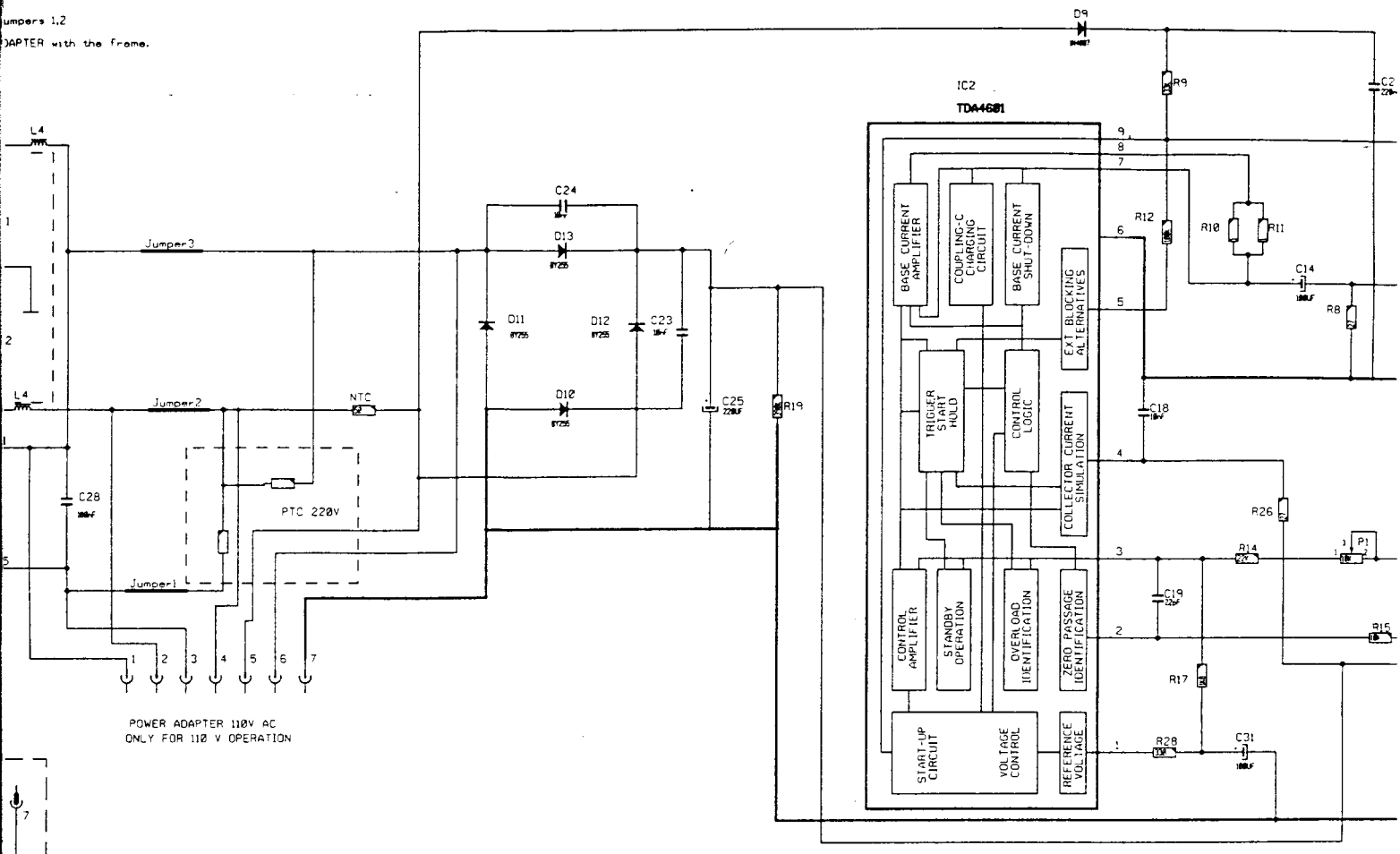

START-UP CIRCUIT
VOLTAGE CONTROL
REFERENCE VOLTAGE
R29
C31
R21
G2
C67
R66
R67
FVK-196-12
D51
Focus
R102
D50
C102
C101
C61
T51
774180
HT
C62
D56
R63
R64
R65
Q52
C60
T50
773360
L5
C63
L50 774155
R69
R59
C58
D52
C64
D53
L100
774137
C65
C113
R126
J8
HORIZONTAL DEFLECTION
J9
R60
D51
C59
R61
R62
shift & con reduction
773148
T400
Horizontal shift
P400
D402
D401
D400
R400
Horizontal amplitude
P401
J8
To switch Scan reduction
Q400
R422
P402
Vertical amplitude
76 11858
IC100
TDA2653
GUARD CIRCUIT
OSCILLATOR
FREQUENCY DETECTOR
OUTPUT STAGE/ THERMAL & SHORT CIRCUIT PROTECTION
FLYBACK GENERATOR
VOLTAGE STABILIZER
SAWTOOTH GENERATOR
6
7
8
9
10
11
12
13
R105
C107
R104
C106
D100
R93
R101
R91
C103
C104
R103
C105
C100
R113
R95
C115
VERTICAL DEFLECTION
J9
C109
C114
Hor PCC distortion
Horizontal amplitude
P105
P103
R118
R96
P102
R115
Vertical Amplitude
R116
R127
R117
R121
R122
C111
R125
C112
Q102
R123
P104
C110
P120
Q100
Q101
Trapezium distortion
J4
To decoder
77:2937
C203
C201
C202
R158

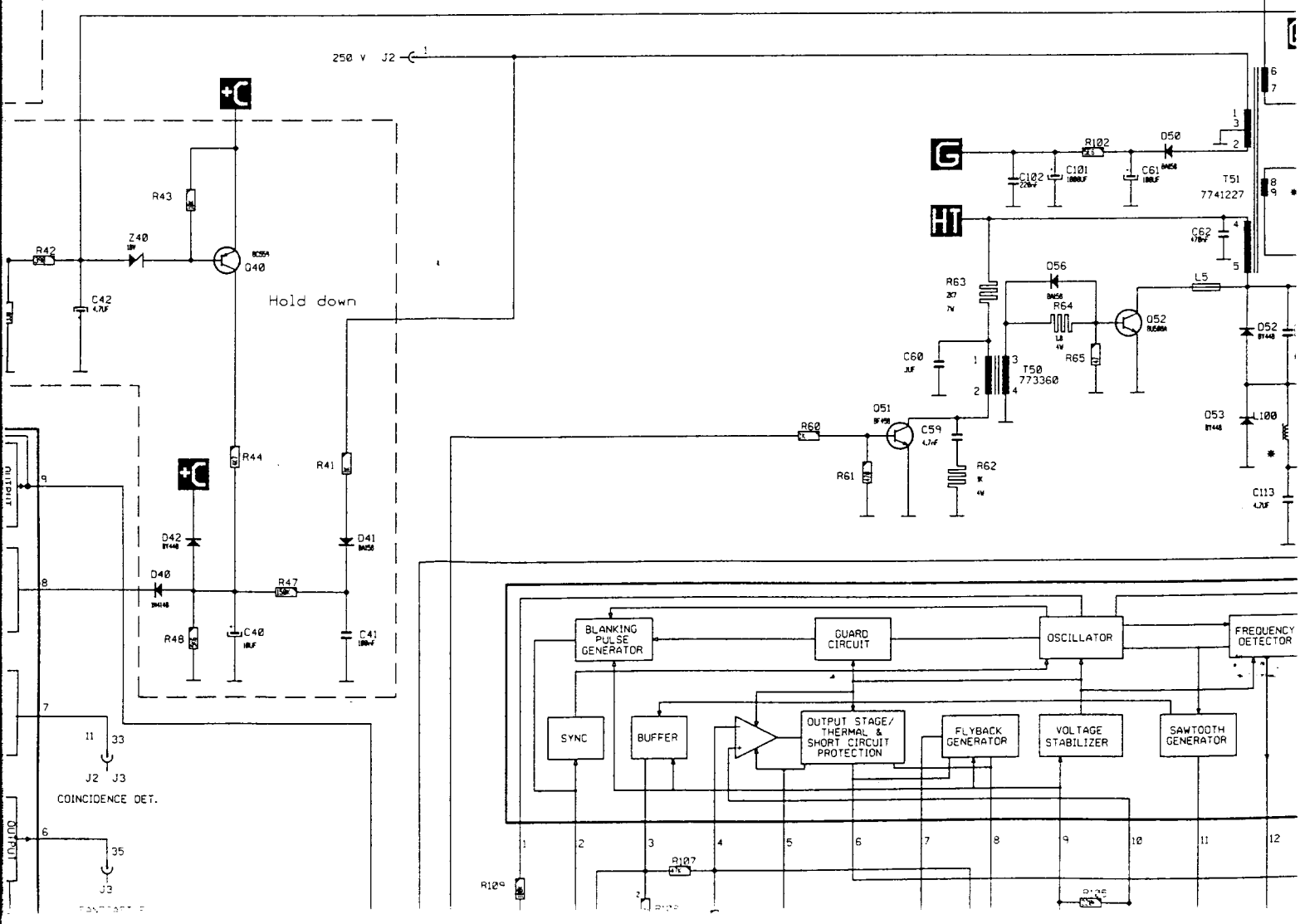

8 Cathode of red gun
9 heater
10 heater
11 Cathode of blue gun
12 IC
EHT
FOCUS
TVK-196-17
D51
Focus
heater
G1
G3
G2
cathode red
G2
R150
R154
G2 adjustment
P150
R180
R152
C150
47nF
J6 J6
TO DEGAUSING J6
R151
C151
R156
D222
D200
Q220
R221
R224
R159
cathode green
D221
D201
Q221
R222
R225
R158
R157
cathode blue
D202
Q222
R223
D223
D203
J4
To decoder
J5
To decoder
HORIZONTAL
DEFLECTION
J8
J9
shift &
scan reduction
D402
R400
Horizontal
amplitude
P401
D400
Q400
R402
P402
vertical amplitude
VERTICAL
DEFLECTION
Horizontal amplitude
P105
R121
R122
C111
R125
C112
Q102
R123
P119
P120
Q100
Q101
7712437
Voltage on board
These adjustments can only be made when this set is into the SCAN REDUCTION MODE
PRODUCT SAFETY NOTICE
COMPONENTS MARKED WITH * OR ⚠ HAVE SPECIAL CHARACTERISTICS IMPORTANT TO SAFETY BEFORE REPLACING ANY OF THESE COMPONENTS. READ CAREFULLY THE SERVICE SAFETY PRECAUTIONS.
DO NOT DEGRADE THE SAFETY OF THIS SET THROUGH IMPROPER SERVICING
0.25W 0.50W 1W 1.5W
MODIFICATIONS RESERVED
Name
FRAME PCD 1640 LP
Article nr.
76 13720
Date
03/02/88
Drawn
JVH
Checked
RDF
BARCO ELECTRONIC NV
Noordlaan 5
B-8720 KUURNE BELGIUM

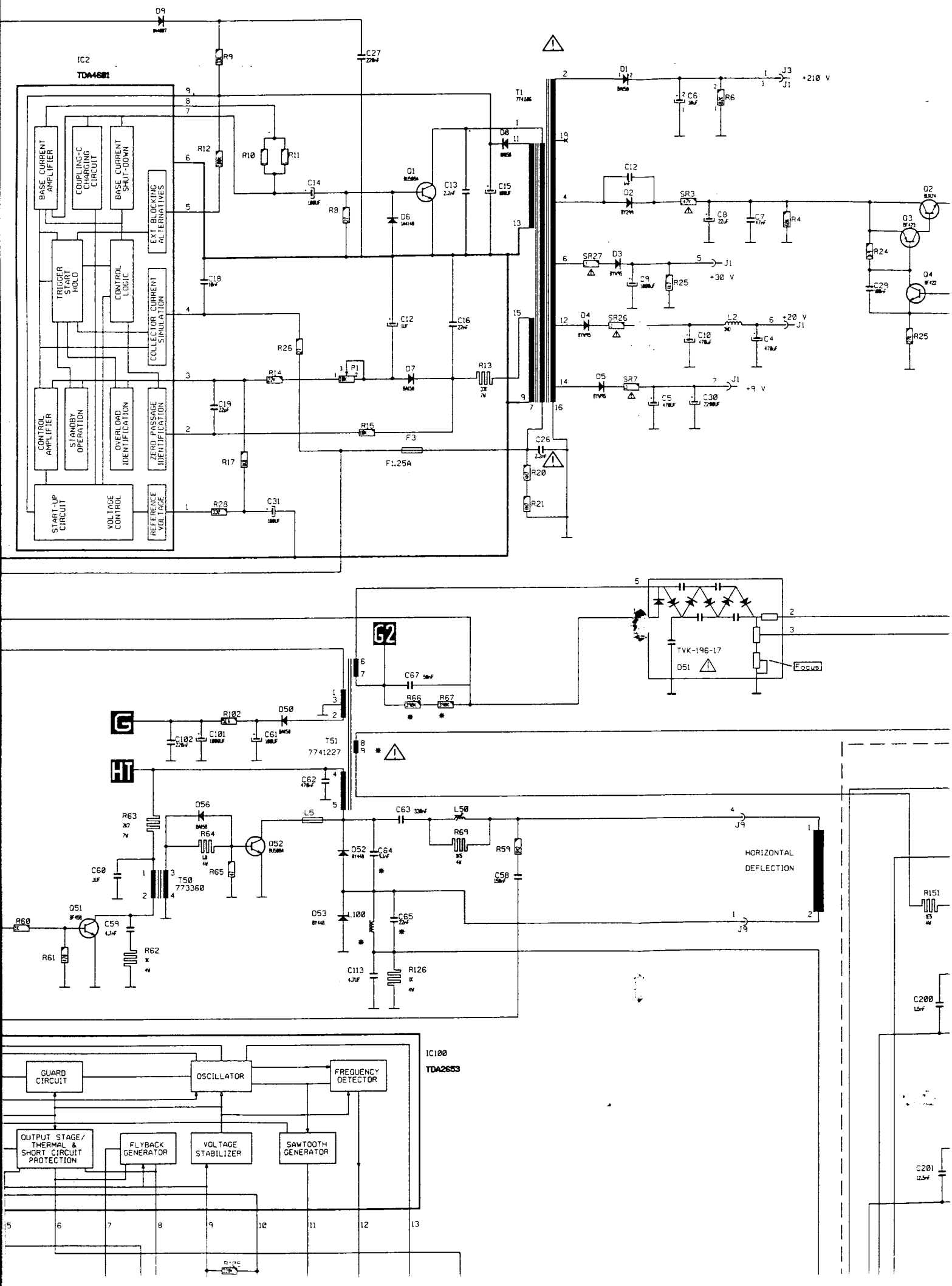

NOTE : for 110 V AC operation remove jumpers 1,2 and 3 and connect the 110 V ADAPTER with the frame.
J1
1 +210 V
3 GND
4 GND 30 V
5 +30 V
6 +20 V
7 +9 V
8 +20 V
9 SATURATION
10 CONTRAST
11 BRIGHTNESS
12 HUE
J3 (DECODER)
1 +210 V
3 SATURATION
5 CONTRAST
7 BRIGHTNESS
9 HUE
11 BC LIMITER
13
15
17 +15 V
19 RGB SWITCHING
21 RED
23 GREEN
25 BLUE
27 VIDEO
29 GND
31
33 COINCIDENCE DETECTOR
35 SANDCASLE
37 BLANKING
39 VERTICAL PULSES
J2
1 250 V
3 VERTICAL LOW
4 AV
5 RGB SWICHING
6 RED
7 GREEN
8 BLUE
9 VIDEO
10 GND
11 COINCIDENCE DETECTOR
12 VERTICAL PULSES
J7
From Unit mains input 76 1287
L4
C21
C20
C22
Jumper3
Jumper2
Jumper1
NTC
PTC 220V
J6
C28
TO DEGAUSING
POWER ADAPTER 110V AC ONLY FOR 110 V OPERATION
76 1181 ADAPTOR 110 V
250 V J2
R43
Z40
BC LIMITER J3
R42
D40
R68
C42
Hold down
TDA2595
IC50
R76
D14
R50
R72
R175
D50
C56
VIDEO J2 J3
C70
R70
R73
C72
R74
GEN. OF COMPOSITE SYNC SLICING LEVEL
VERT. SYNC SEPARATOR
VERT. SYNC PULSE INT.
TRESHOLD LOAD SENSOR SWITCH
OUTPUT STAGE FOR VERTICAL COMPOSITE
BLACK LEVEL DETERMIN. VIDEO AMP.
HORIZONTAL SYNC SEPARATOR
VERTICAL SYNC & COMPOSITE SYNC SWITCH
PROTECTION CIRCUIT
TV TRANSMITTER IDENT.
KEYING PULSE GENERATION
GATE
MUTING STAGE
C55
J2 J3
COINCIDENCE DET.
AV J2
R75
C66
COINCIDENCE DETECTOR
GATE MODE SWITCH
GATE
OUTPUT STAGE FOR BURST GATING & KEYING & BLANKING
J3
SANDCASTLE
R44
R41
D42
D41
D40
R47
R48
C40
C41

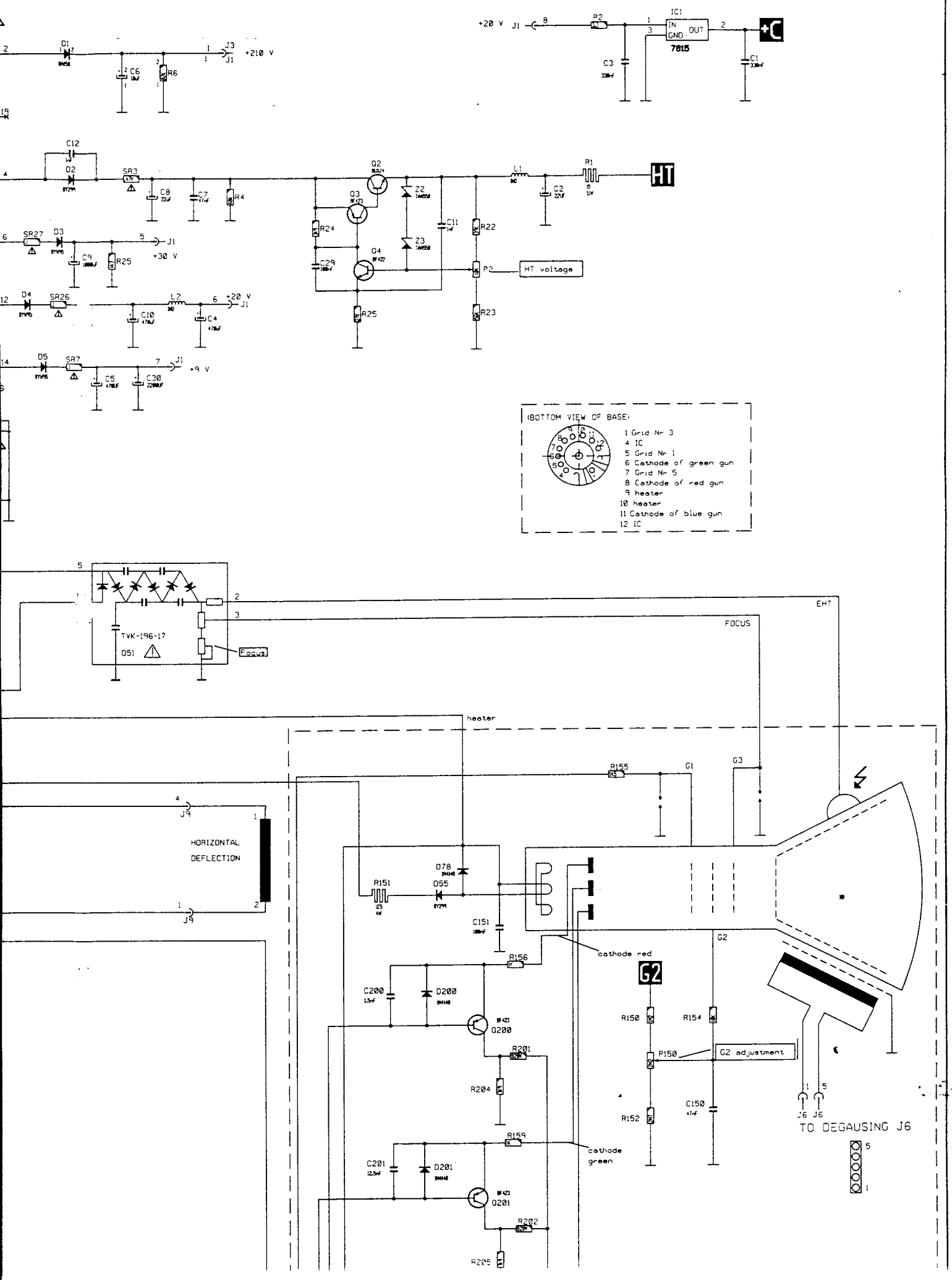
umpers 1,2

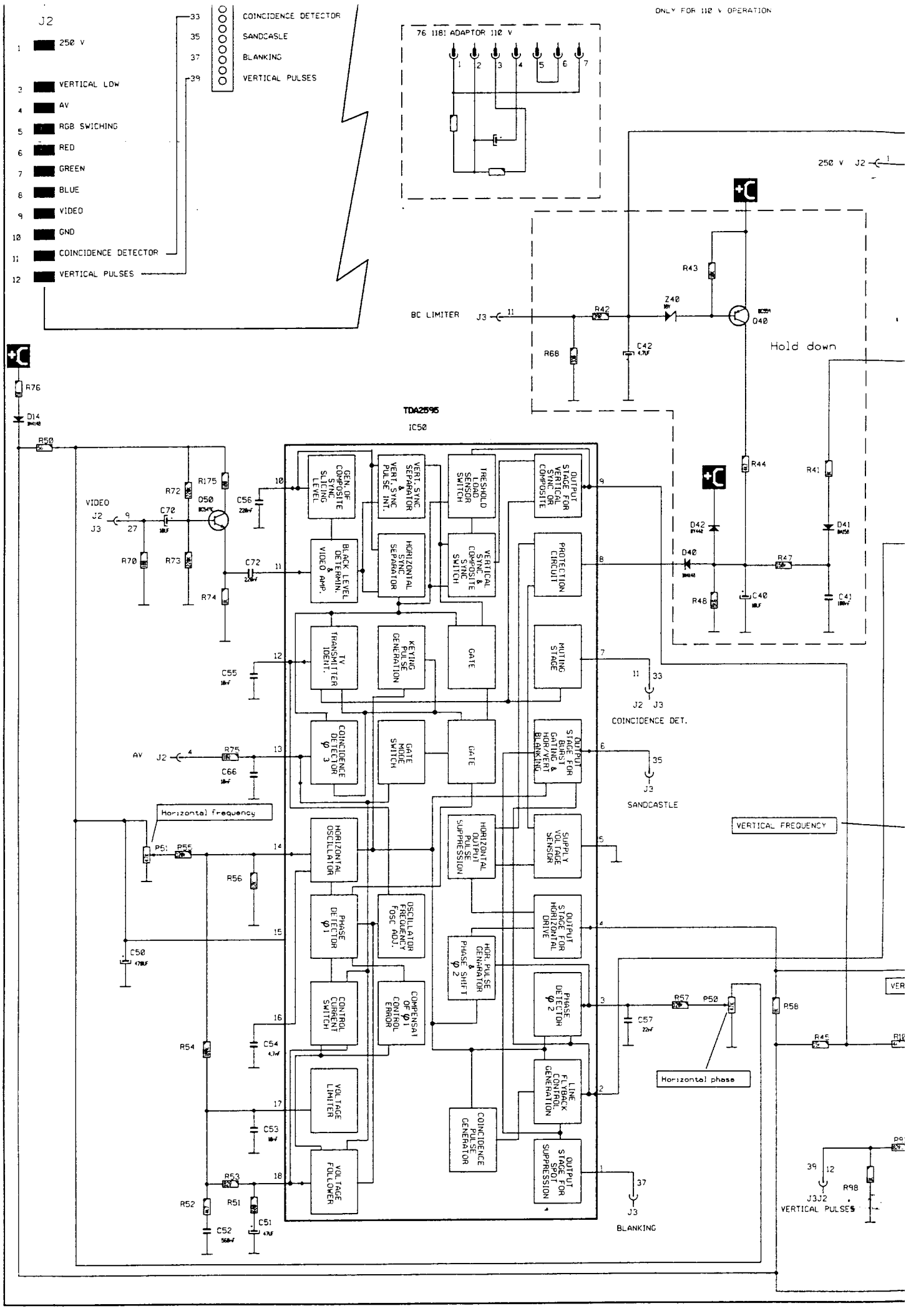
DAPTER with the frame.

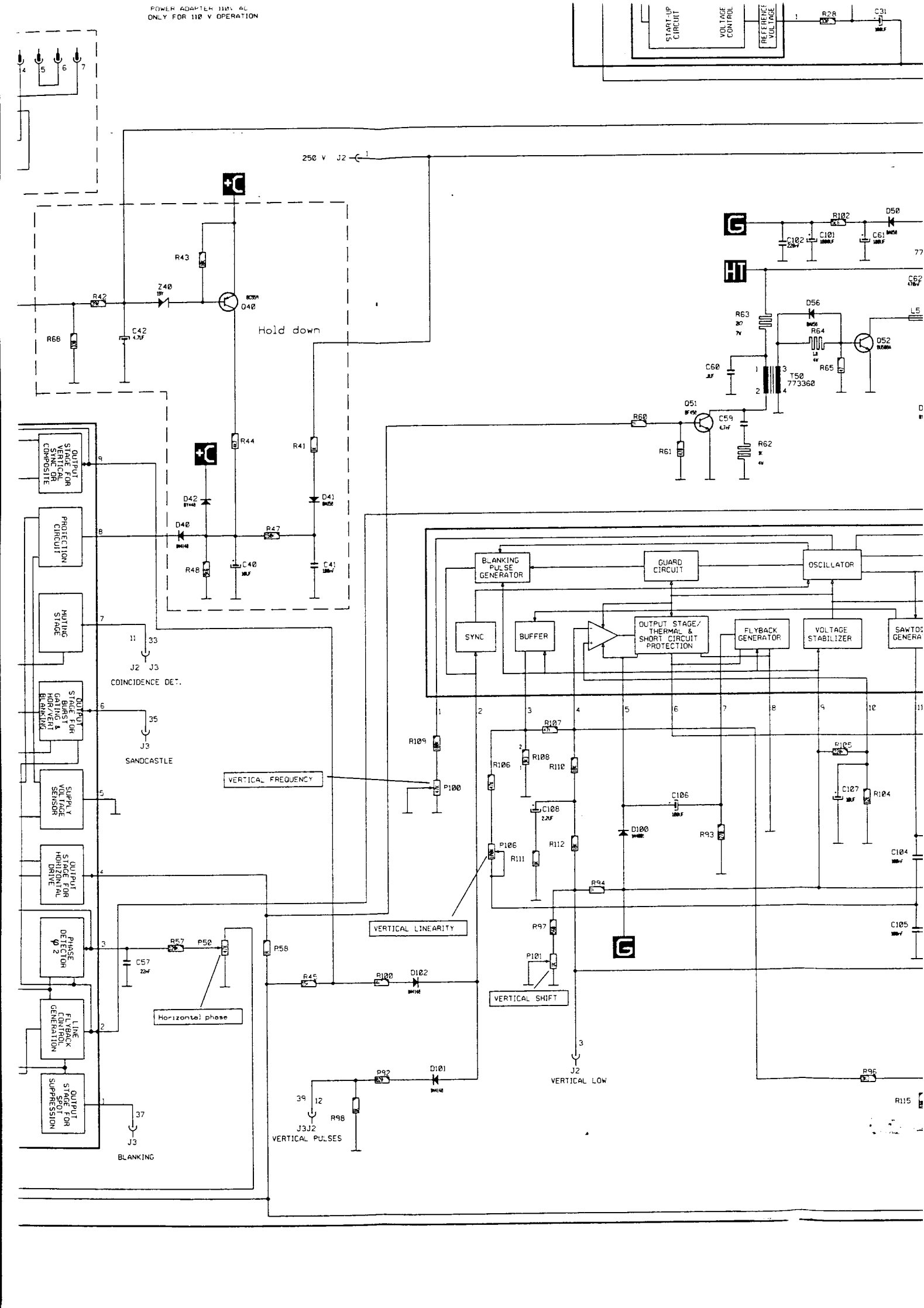


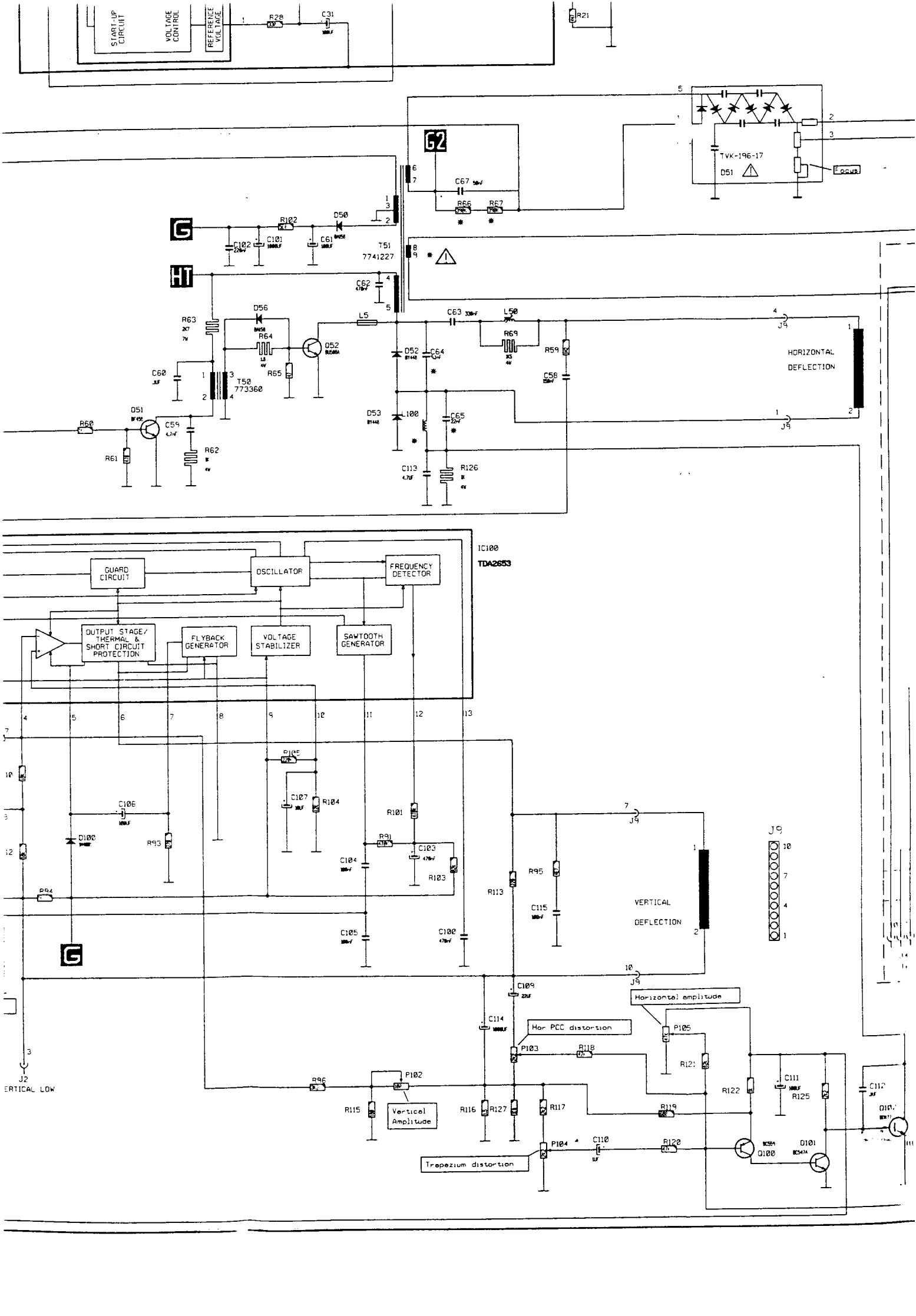



IC2
TDA4601
BASE CURRENT AMPLIFIER
COUPLING-C CHARGING CIRCUIT
BASE CURRENT SHUT-DOWN
EXT. BLOCKING ALTERNATIVES
TRIGGER START HOLD
CONTROL LOGIC
COLLECTOR CURRENT SIMULATION
CONTROL AMPLIFIER
STANDBY OPERATION
OVERLOAD IDENTIFICATION
ZERO PASSAGE IDENTIFICATION
START-UP CIRCUIT
VOLTAGE CONTROL
REFERENCE VOLTAGE
+210 V
+30 V
+20 V
+9 V
F1.25A
TVK-196-17
D51
T51
7741227
T50
773360
HORIZONTAL DEFLECTION
IC100
TDA2653
GUARD CIRCUIT
OSCILLATOR
FREQUENCY DETECTOR
OUTPUT STAGE/ THERMAL & SHORT CIRCUIT PROTECTION
FLYBACK GENERATOR
VOLTAGE STABILIZER
SAWTOOTH GENERATOR

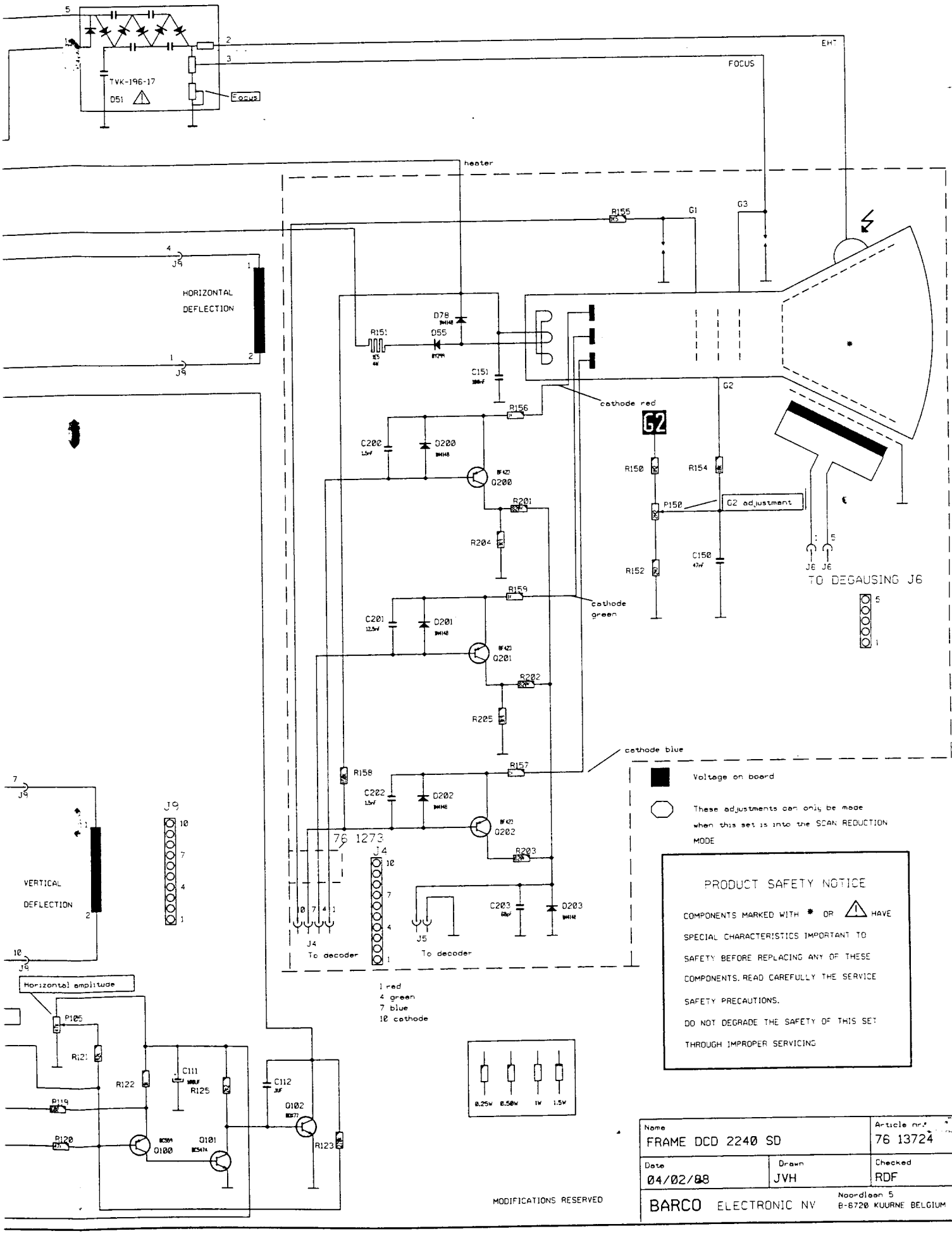

+20 V
IC1
IN
GND
OUT
7815
+210 V
+30 V
+20 V
+9 V
HT
HT voltage
(BOTTOM VIEW OF BASE)
1 Grid Nr 3
4 IC
5 Grid Nr 1
6 Cathode of green gun
7 Grid Nr 5
8 Cathode of red gun
9 heater
10 heater
11 Cathode of blue gun
12 IC
TVK-196-17
D51
Focus
EHT
FOCUS
heater
HORIZONTAL
DEFLECTION
cathode red
cathode
green
G1
G2
G3
G2 adjustment
TO DEGAUSING J6


ONLY FOR 110 V OPERATION
J2
1 250 V
2 VERTICAL LOW
4 AV
5 RGB SWICHING
6 RED
7 GREEN
8 BLUE
9 VIDEO
10 GND
11 COINCIDENCE DETECTOR
12 VERTICAL PULSES
33 COINCIDENCE DETECTOR
35 SANDCASLE
37 BLANKING
39 VERTICAL PULSES
76 118! ADAPTOR 110 V
250 V J2
R43
Z40
BC LIMITER
J3 11
R42
D40
R68
C42
Hold down
TDA2595
IC50
R76
D14
R50
R72
R175
D50
C56
VIDEO
J2 J3
9 27
C70
R70
R73
C72
R74
R44
R41
D42
D41
D40
R47
R48
C40
C41
C55
C66
AV J2 4
R75
C50
R51
R55
R56
R54
C54
R53
R52
C53
C52
C51
R57
P50
C57
R45
R98
Horizontal frequency
Horizontal phase
VERTICAL FREQUENCY
J3J2
VERTICAL PULSES
J2 J3
COINCIDENCE DET.
SANDCASTLE
BLANKING
GEN. OF COMPOSITE SYNC SLICING LEVEL
VERT. SYNC SEPARATOR
VERT. SYNC PULSE INT.
TRESHOLD LOAD SENSOR SWITCH
OUTPUT STAGE FOR VERTICAL SYNC COMPOSITE
BLACK LEVEL DETERMIN. VIDEO AMP.
HORIZONTAL SYNC SEPARATOR
VERTICAL SYNC COMPOSITE SYNC SWITCH
PROTECTION CIRCUIT
TV TRANSMITTER IDENT.
KEYING PULSE GENERATION
GATE
MUTING STAGE
COINCIDENCE DETECTOR φ 3
GATE MODE SWITCH
GATE
OUTPUT STAGE FOR BURST GATING & HOR/VERT BLANKING
HORIZONTAL OSCILLATOR
HORIZONTAL OUTPUT PULSE SUPPRESSION
SUPPLY VOLTAGE SENSOR
PHASE DETECTOR φ 1
OSCILLATOR FREQUENCY FOSC ADJ.
OUTPUT STAGE FOR HORIZONTAL DRIVE
HOR. PULSE GENERATOR PHASE SHIFT φ 2
PHASE DETECTOR φ 2
CONTROL CURRENT SWITCH
COMPENSAT OF φ 1 CONTROL ERROR
LINE FLYBACK CONTROL GENERATION
VOLTAGE LIMITER
COINCIDENCE PULSE GENERATOR
OUTPUT STAGE FOR SPOT SUPPRESSION
VOLTAGE FOLLOWER


POWER ADAPTER 110% AC
ONLY FOR 110 V OPERATION
250 V
J2
Hold down
R43
R42
Z40
Q40
R68
C42
R44
R41
D42
D41
D40
R47
R48
C40
C41
OUTPUT STAGE FOR VERTICAL SYNC OR COMPOSITE
PROTECTION CIRCUIT
MUTING STAGE
OUTPUT STAGE FOR BURST GATE & HOR/VERT BLANKING
SUPPLY VOLTAGE SENSOR
OUTPUT STAGE FOR HORIZONTAL DRIVE
PHASE DETECTOR φ 2
LINE FLYBACK CONTROL GENERATION
OUTPUT STAGE FOR SPOT SUPPRESSION
J2 J3
COINCIDENCE DET.
J3
SANDCASTLE
J3
BLANKING
VERTICAL FREQUENCY
R57
P50
C57
Horizontal phase
P58
R45
P100
D102
P92
D101
J3J2
VERTICAL PULSES
R98
R109
P100
R107
R106
R108
R110
C108
P106
R111
R112
VERTICAL LINEARITY
P97
P101
VERTICAL SHIFT
R94
C106
D100
R93
C107
R104
P105
C104
C105
J2
VERTICAL LOW
R96
R115
BLANKING PULSE GENERATOR
GUARD CIRCUIT
OSCILLATOR
SYNC
BUFFER
OUTPUT STAGE/ THERMAL & SHORT CIRCUIT PROTECTION
FLYBACK GENERATOR
VOLTAGE STABILIZER
SAWTOO GENERA
START-UP CIRCUIT
VOLTAGE CONTROL
REFERENCE VOLTAGE
R28
C31
R102
D50
C102
C101
C61
HT
C62
D56
R63
R64
D52
L5
C60
T50
773360
R65
Q51
C59
R60
R61
R62


START-UP CIRCUIT
VOLTAGE CONTROL
REFERENCE VOLTAGE
R28
C31
R21
G2
TVK-196-17
D51
Focus
R66
R67
C67
R102
D50
C102
C101
C61
T51
7741227
HT
C62
R63
D56
L5
C63
L50
R64
D52
R69
R59
C58
HORIZONTAL DEFLECTION
J9
C60
T50
773360
R65
C64
R60
C59
R62
R61
D53
L100
C65
C113
R126
IC100
TDA2653
GUARD CIRCUIT
OSCILLATOR
FREQUENCY DETECTOR
OUTPUT STAGE/ THERMAL & SHORT CIRCUIT PROTECTION
FLYBACK GENERATOR
VOLTAGE STABILIZER
SAWTOOTH GENERATOR
C106
D100
R93
R94
C107
R104
R101
R91
C103
C104
R103
C105
C100
R113
R95
C115
VERTICAL DEFLECTION
C109
C114
Horizontal amplitude
Hor PCC distortion
P105
P103
R118
R121
R122
C111
R125
C112
R96
P102
R115
Vertical Amplitude
R116
R127
R117
R119
P104
C110
R120
Trapezium distortion
Q100
Q101
J2
ERTICAL LOW

6 Cathode of red gun
9 heater
10 heater
11 Cathode of blue gun
12 IC



Voltage on board

These adjustments can only be made when this set is into the SCAN REDUCTION MODE

PRODUCT SAFETY NOTICE

COMPONENTS MARKED WITH * OR ⚠ HAVE SPECIAL CHARACTERISTICS IMPORTANT TO SAFETY. BEFORE REPLACING ANY OF THESE COMPONENTS, READ CAREFULLY THE SERVICE SAFETY PRECAUTIONS.

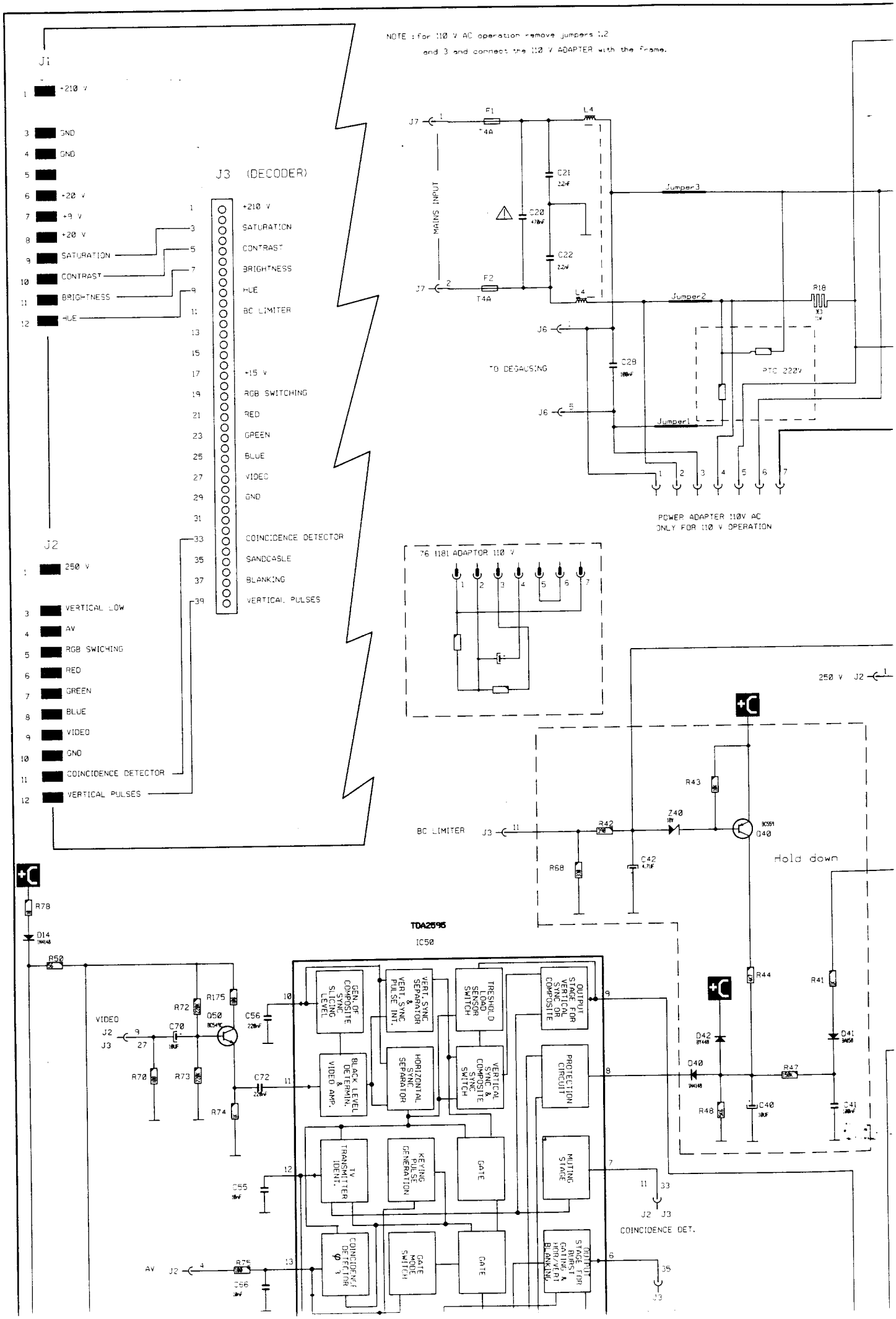
DO NOT DEGRADE THE SAFETY OF THIS SET THROUGH IMPROPER SERVICING

0.25W 0.50W 1W 1.5W

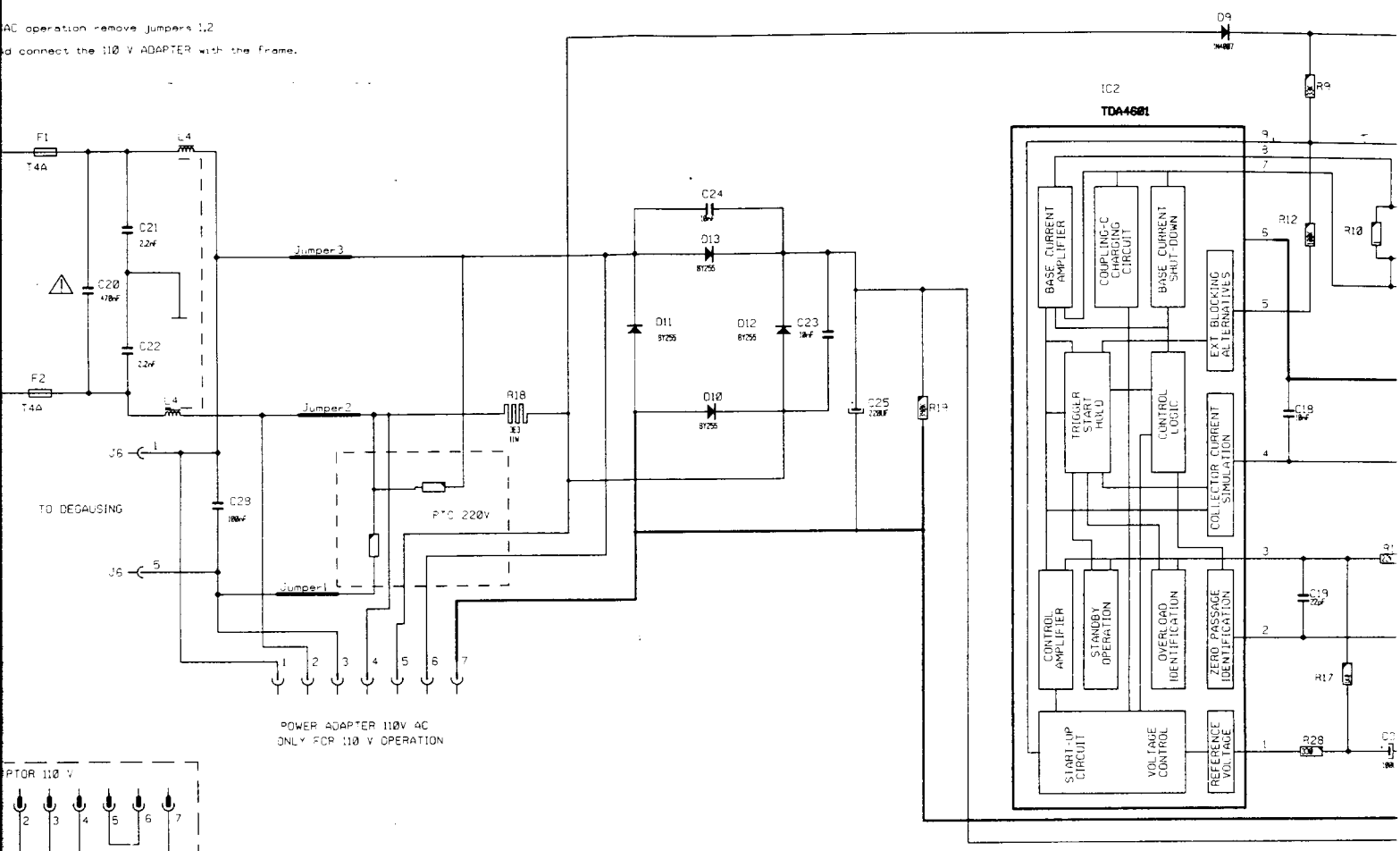
MODIFICATIONS RESERVED

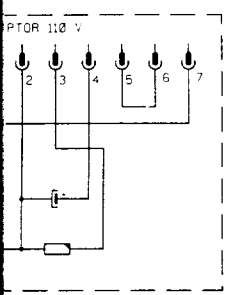
Name: FRAME DCD 2240 SD		Article nr.: 76 13724
Date: 04/02/88	Drawn: JVH	Checked: RDF

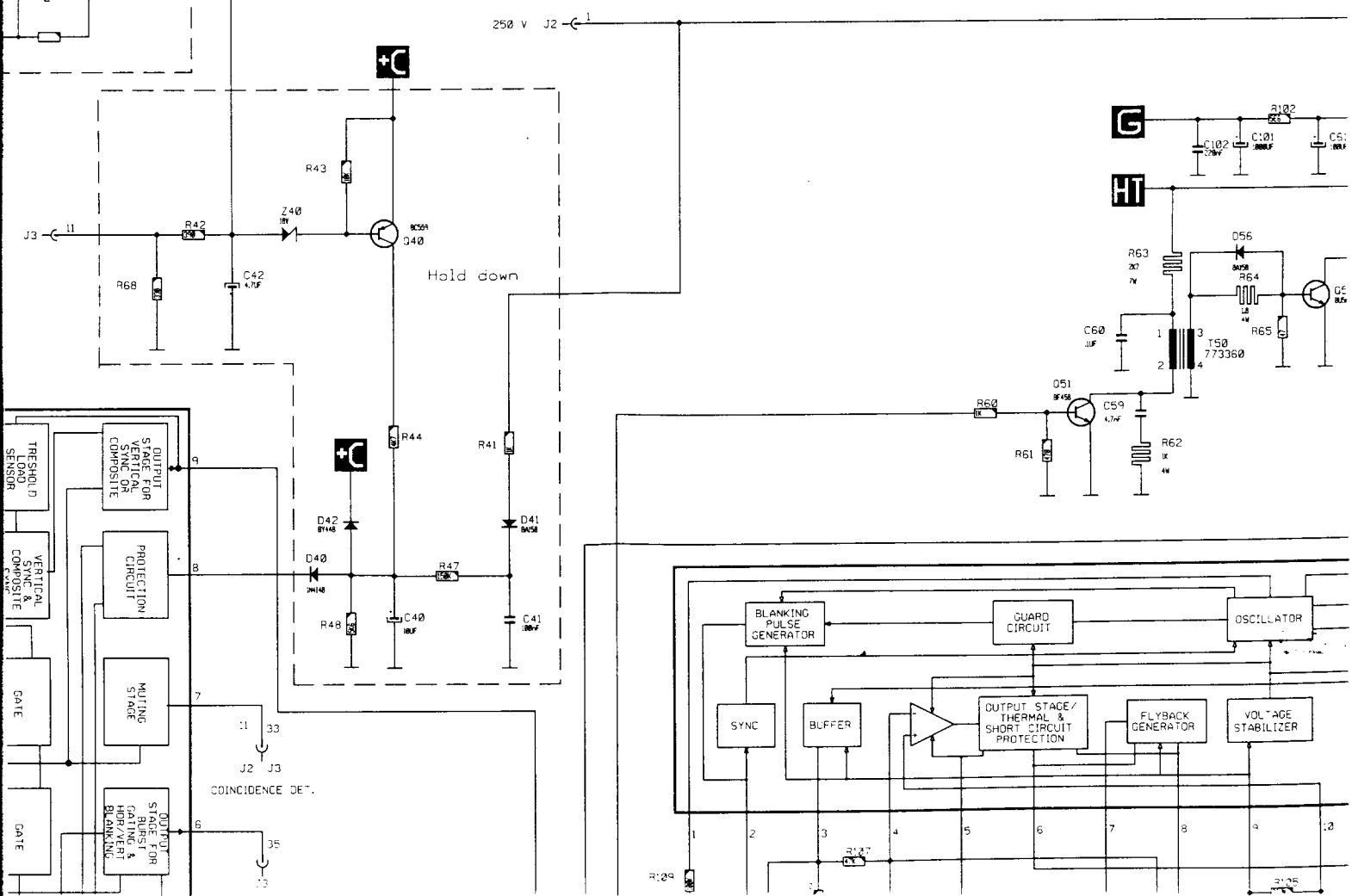
BARCO ELECTRONIC NV
Noordlaan 5
B-8720 KUURNE BELGIUM

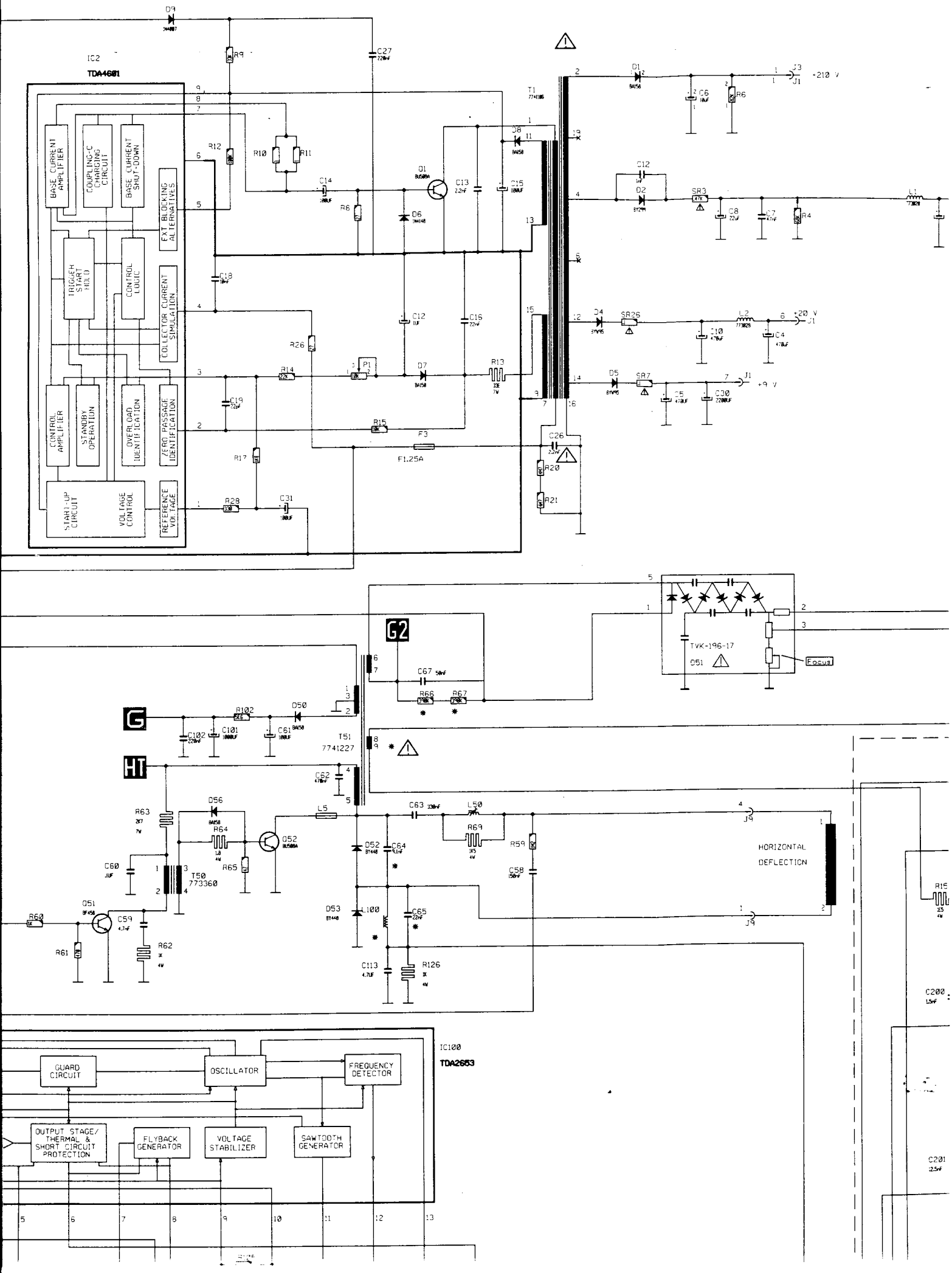

NOTE : for 110 V AC operation remove jumpers 1,2 and 3 and connect the 110 V ADAPTER with the frame.
J1
+210 V
GND
GND
+20 V
+9 V
+20 V
SATURATION
CONTRAST
BRIGHTNESS
HUE
J3 (DECODER)
+210 V
SATURATION
CONTRAST
BRIGHTNESS
HUE
BC LIMITER
+15 V
RGB SWITCHING
RED
GREEN
BLUE
VIDEO
GND
COINCIDENCE DETECTOR
SANDCASLE
BLANKING
VERTICAL PULSES
J2
250 V
VERTICAL LOW
AV
RGB SWICHING
RED
GREEN
BLUE
VIDEO
GND
COINCIDENCE DETECTOR
VERTICAL PULSES
MAINS INPUT
F1
T4A
F2
T4A
L4
C21
C20
C22
Jumper3
Jumper2
Jumper1
R18
J6
TO DEGAUSING
C28
PTC 220V
POWER ADAPTER 110V AC
ONLY FOR 110 V OPERATION
76 1181 ADAPTOR 110 V
250 V J2
R43
Z40
D40
R42
R68
C42
Hold down
TDA2595
IC50
R78
D14
R50
R175
R72
Q50
C56
VIDEO
C70
R70
R73
R74
C72
C55
C66
AV
R76
R44
R41
D42
D41
R47
R48
C40
C41
GEN. OF COMPOSITE BLANKING SLICING LEVEL
VERT. SYNC SEPARATOR VERT. SYNC PULSE INT.
TRESHOLD LOAD SENSOR SWITCH
OUTPUT STAGE FOR VERTICAL COMPOSITE
BLACK LEVEL DETERMIN. VIDEO AMP.
HORIZONTAL SYNC SEPARATOR
VERTICAL SYNC & COMPOSITE SYNC SWITCH
PROTECTION CIRCUIT
TV TRANSMITTER IDENT.
KEYING PULSE GENERATION
GATE
MUTING STAGE
COINCIDENCE DETECTION
GATE MODE SWITCH
GATE
OUTPUT STAGE FOR BURST GATING & HORIZONTAL BLANKING
J2 J3
COINCIDENCE DET.
J3

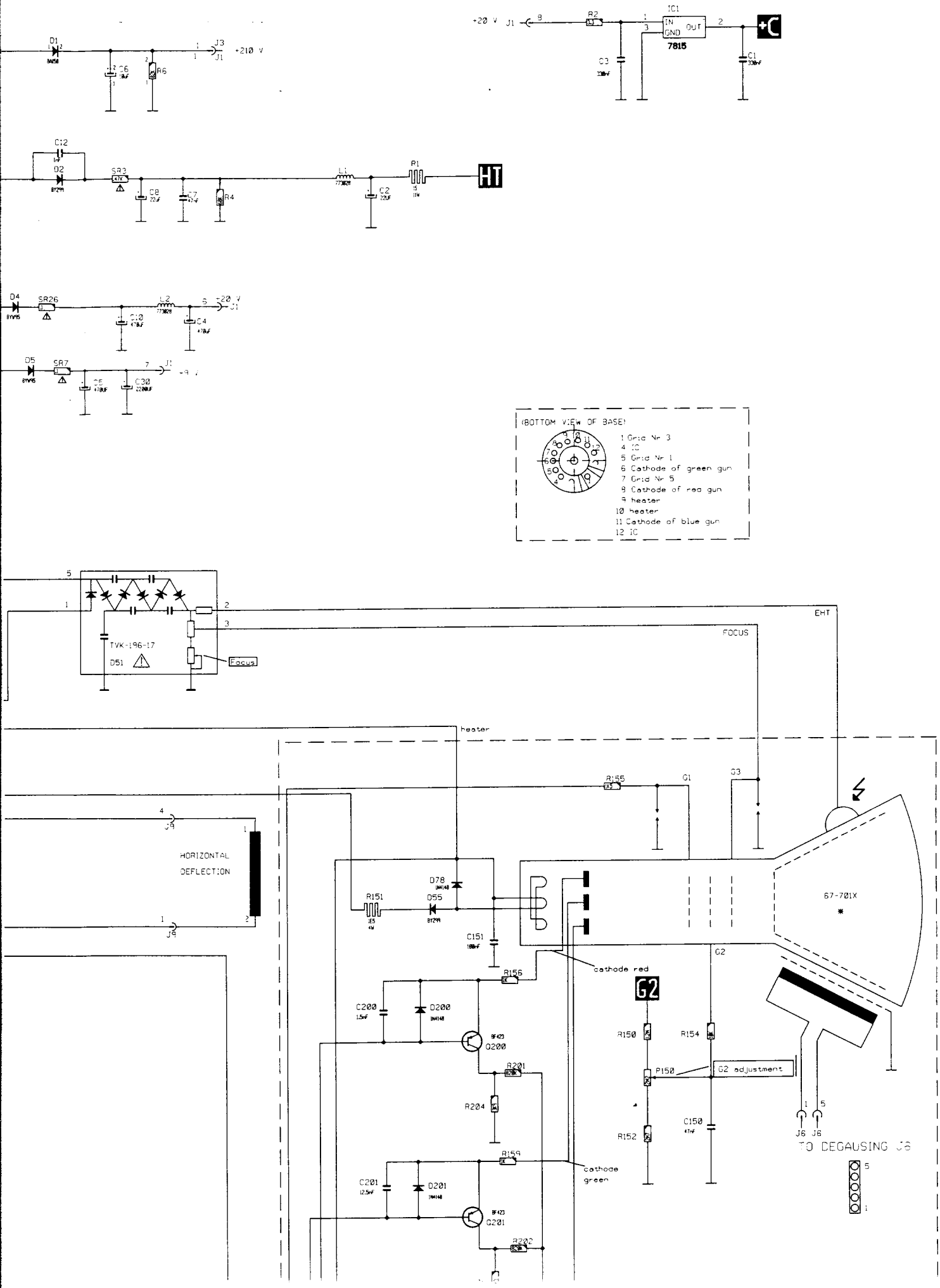
AC operation remove jumpers 1,2
d connect the 110 V ADAPTER with the frame.

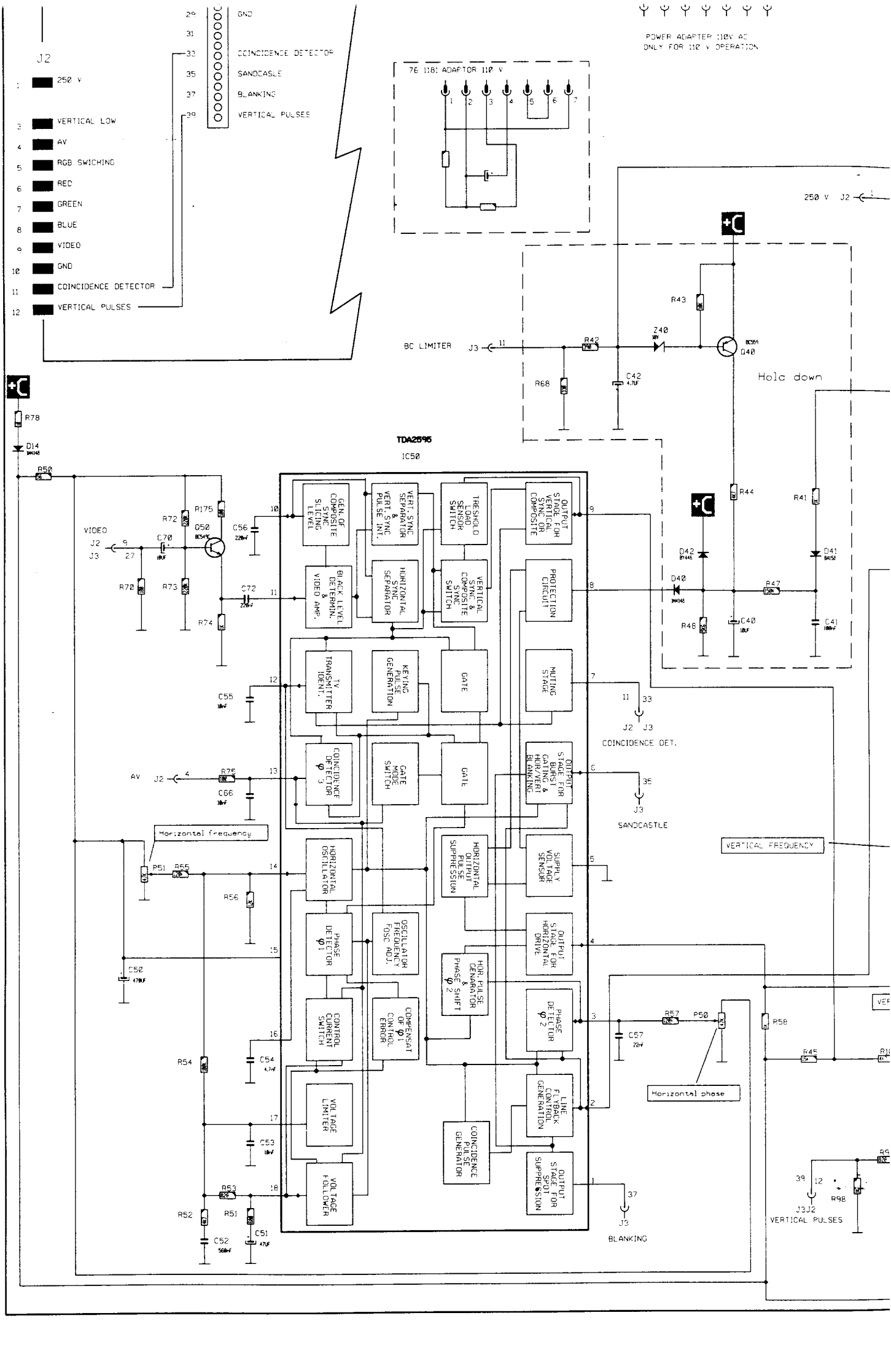


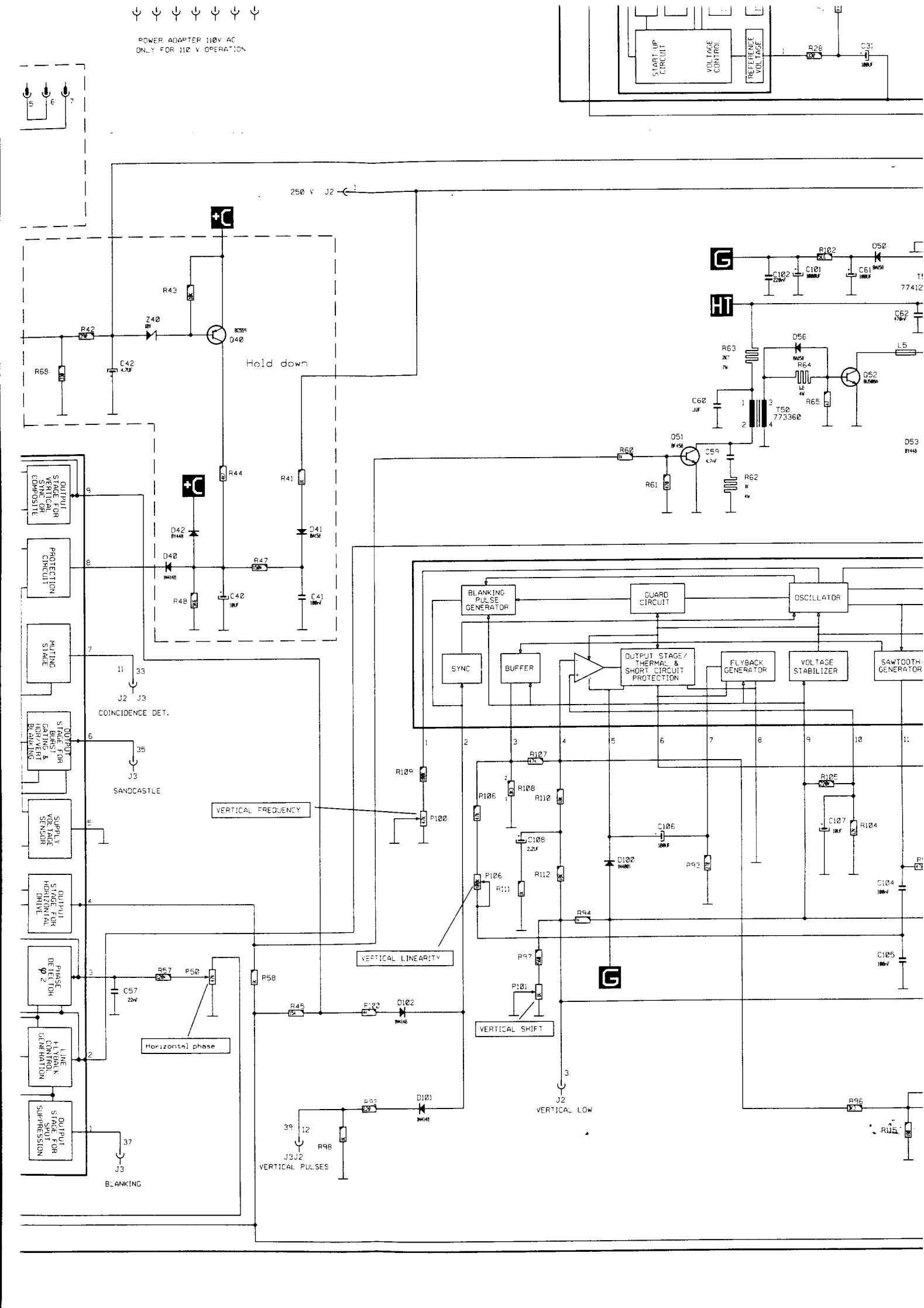


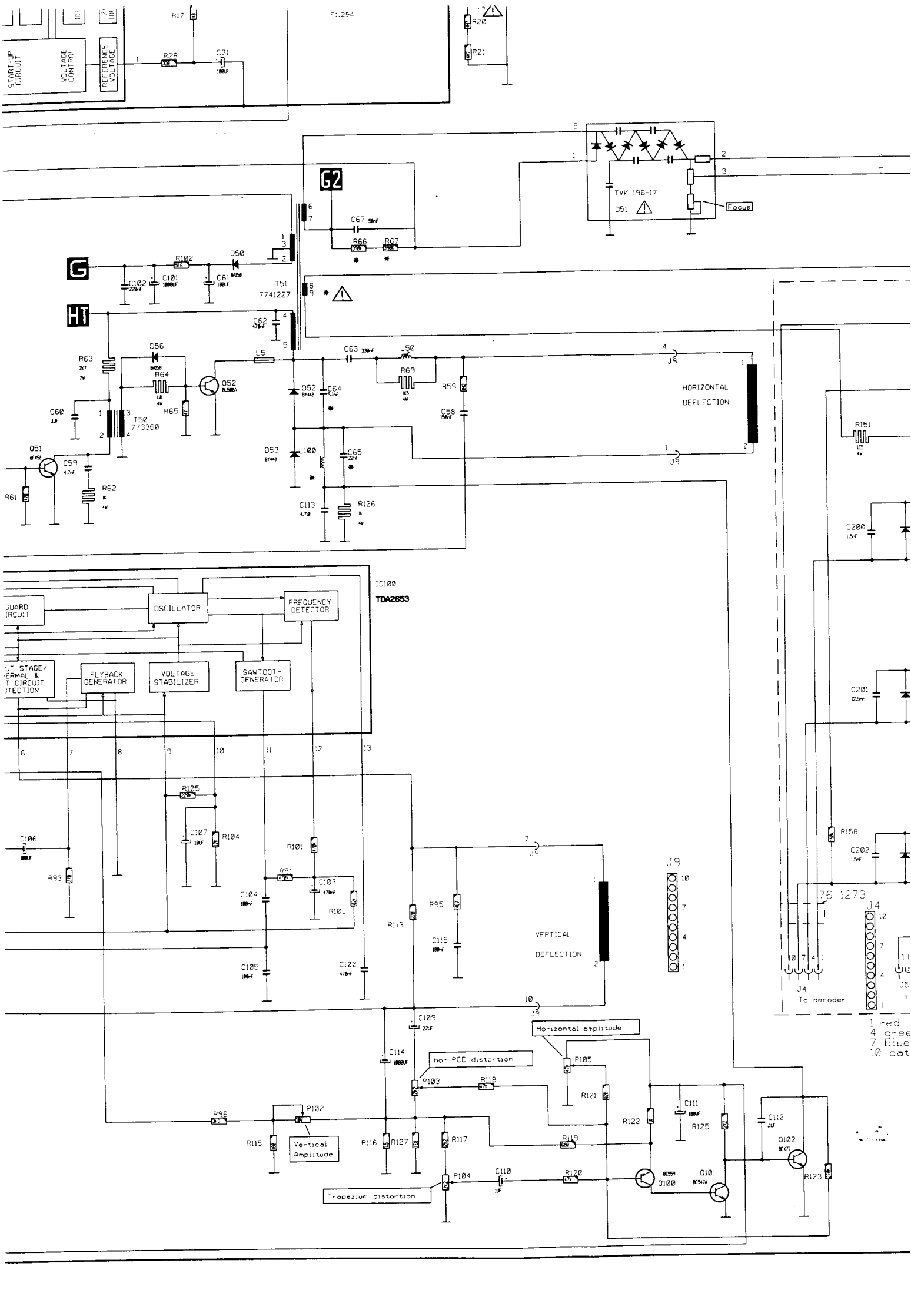


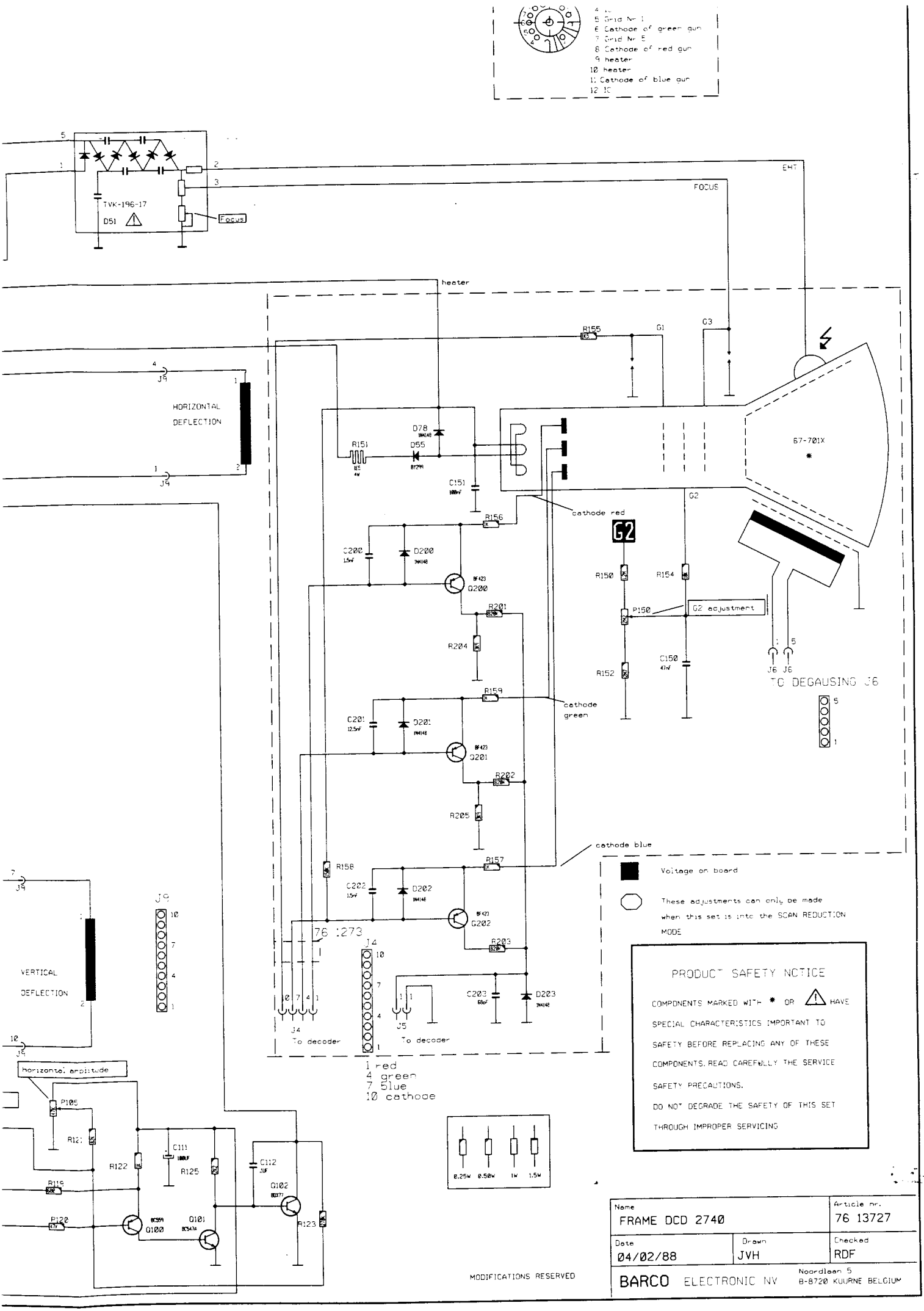

IC2
TDA4681
BASE CURRENT AMPLIFIER
COUPLING-C CHARGING CIRCUIT
BASE CURRENT SHUT-DOWN
EXT BLOCKING ALTERNATIVES
TRIGGER START HOLD
CONTROL LOGIC
COLLECTOR CURRENT SIMULATION
CONTROL AMPLIFIER
STANDBY OPERATION
OVERLOAD IDENTIFICATION
ZERO PASSAGE IDENTIFICATION
START-UP CIRCUIT
VOLTAGE CONTROL
REFERENCE VOLTAGE
+210 V
+20 V
+9 V
F1.25A
TVK-196-17
Focus
G2
G
HT
T51
7741227
T50
773360
HORIZONTAL DEFLECTION
IC100
TDA2653
GUARD CIRCUIT
OSCILLATOR
FREQUENCY DETECTOR
OUTPUT STAGE/ THERMAL & SHORT CIRCUIT PROTECTION
FLYBACK GENERATOR
VOLTAGE STABILIZER
SAWTOOTH GENERATOR

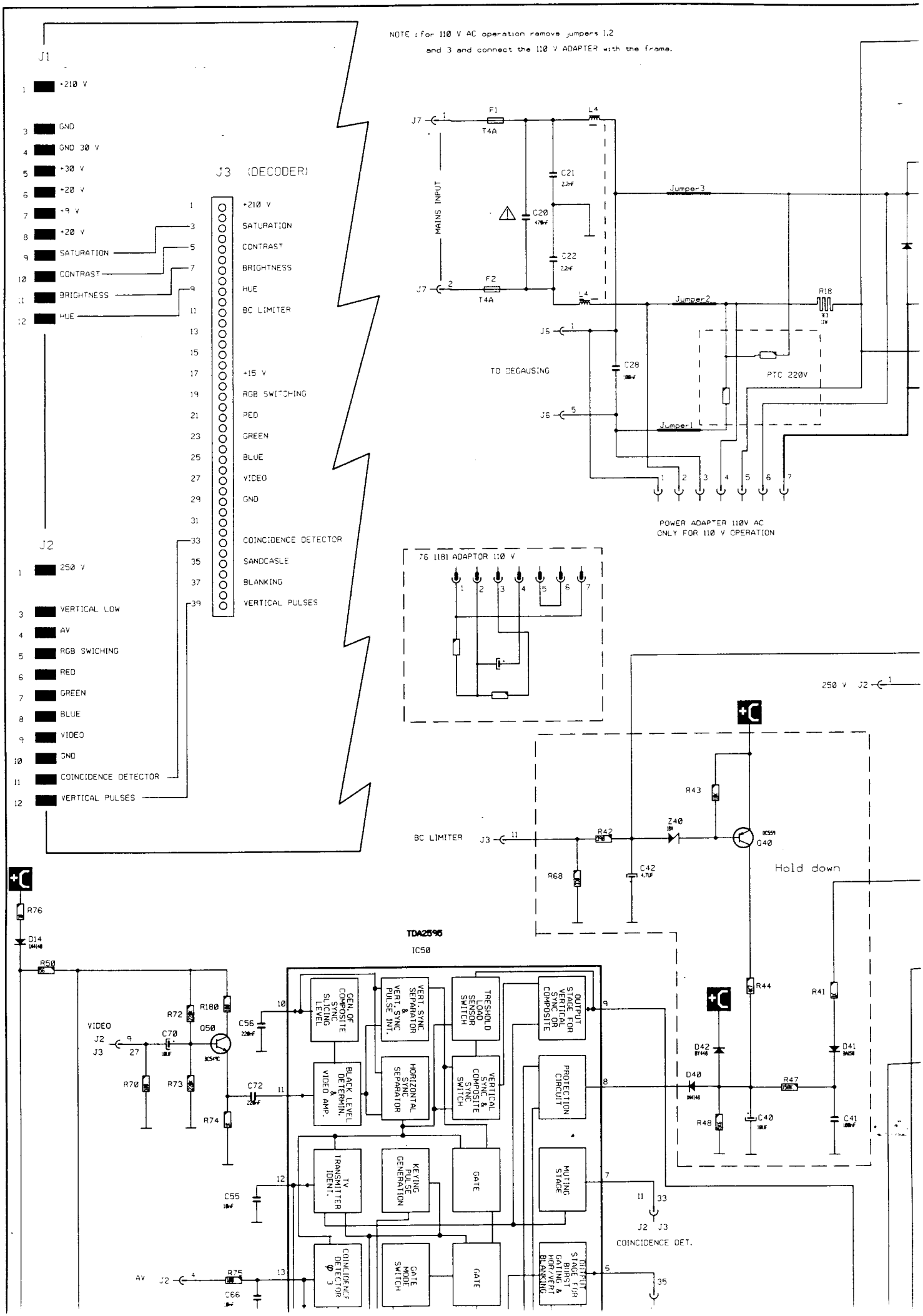

+20 V
J1
IC1
IN
GND
OUT
7815
+C
C3
C1
R2
D1
J3
+210 V
C6
R6
C12
D2
SR3
L1
R1
HT
C8
C7
R4
C2
D4
SR26
L2
C10
C4
D5
SR7
C5
C30
(BOTTOM VIEW OF BASE)
1 Grid Nr 3
4 IC
5 Grid Nr 1
6 Cathode of green gun
7 Grid Nr 5
8 Cathode of red gun
9 heater
10 heater
11 Cathode of blue gun
12 IC
TVK-196-17
D51
Focus
EHT
FOCUS
heater
HORIZONTAL
DEFLECTION
J9
J8
R155
G1
G3
D78
R151
D55
C151
R156
C200
D200
Q200
R201
R204
R159
C201
D201
Q201
R202
cathode red
cathode green
G2
R150
R154
P150
G2 adjustment
C150
R152
J6
TO DEGAUSSING J8
67-701X


J2
250 V
VERTICAL LOW
AV
RGB SWICHING
RED
GREEN
BLUE
VIDEO
GND
COINCIDENCE DETECTOR
VERTICAL PULSES
29 GND
31
32 COINCIDENCE DETECTOR
35 SANDCASLE
37 BLANKING
39 VERTICAL PULSES
POWER ADAPTER 110V AC
ONLY FOR 110 V OPERATION
76 1181 ADAPTOR 110 V
250 V J2
R43
Z40
BC LIMITER
J3
R42
Q40
R68
C42
Hold down
TDA2595
IC50
R78
D14
R50
VIDEO
J2
J3
C70
R72
R175
Q50
R70
R73
R74
C56
C72
GEN. OF COMPOSITE SYNC SLICING LEVEL
VERT. SYNC SEPARATOR
VERT. SYNC PULSE INT.
TRESHOLD LOAD SENSOR SWITCH
OUTPUT STAGE FOR VERT. SYNC. COMPOSITE
BLACK LEVEL DETERMIN. & VIDEO AMP.
HORIZONTAL SYNC SEPARATOR
VERTICAL SYNC & COMPOSITE SYNC SWITCH
PROTECTION CIRCUIT
TV TRANSMITTER IDENT.
KEYING PULSE GENERATION
GATE
MUTING STAGE
C55
COINCIDENCE DETECTOR φ 3
GATE MODE SWITCH
GATE
OUTPUT STAGE FOR BURST GATING & HOR/VERT BLANKING
AV
J2
4
R75
C66
Horizontal frequency
P51
R55
R56
HORIZONTAL OSCILLATOR
HORIZONTAL OUTPUT PULSE SUPPRESSION
SUPPLY VOLTAGE SENSOR
C52
PHASE DETECTOR φ 1
OSCILLATOR FREQUENCY Fosc ADJ.
OUTPUT STAGE FOR HORIZONTAL DRIVE
HOR. PULSE GENERATOR PHASE φ 2 SHIFT
PHASE DETECTOR φ 2
CONTROL CURRENT SWITCH
COMPENSAT. OF φ 1 CONTROL ERROR
C54
R54
VOLTAGE LIMITER
C53
LINE FLYBACK CONTROL GENERATION
COINCIDENCE PULSE GENERATOR
OUTPUT STAGE FOR SPOT SUPPRESSION
R53
R52
R51
C52
C51
VOLTAGE FOLLOWER
R44
R41
D42
D41
D40
R47
R48
C40
C41
J2 J3
COINCIDENCE DET.
SANDCASTLE
BLANKING
VERTICAL FREQUENCY
R57
P50
C57
R58
R45
Horizontal phase
J3J2
VERTICAL PULSES
R98


POWER ADAPTER 110V AC
ONLY FOR 110 V OPERATION
START-UP CIRCUIT
VOLTAGE CONTROL
REFERENCE VOLTAGE
250 V J2
Hold down
OUTPUT STAGE FOR VERTICAL SYNC OR COMPOSITE
PROTECTION CIRCUIT
MUTING STAGE
OUTPUT STAGE FOR BURST GATING & HOR/VERT BLANKING
SUPPLY VOLTAGE SENSOR
OUTPUT STAGE FOR HORIZONTAL DRIVE
PHASE DETECTOR φ 2
LINE FLYBACK GENERATION
OUTPUT STAGE FOR SPOT SUPPRESSION
COINCIDENCE DET.
SANDCASTLE
BLANKING
VERTICAL PULSES
VERTICAL LOW
VERTICAL SHIFT
VERTICAL LINEARITY
VERTICAL FREQUENCY
Horizontal phase
BLANKING PULSE GENERATOR
GUARD CIRCUIT
OSCILLATOR
SYNC
BUFFER
OUTPUT STAGE/ THERMAL & SHORT CIRCUIT PROTECTION
FLYBACK GENERATOR
VOLTAGE STABILIZER
SAWTOOTH GENERATOR
T50 77336Ø
T5 77412

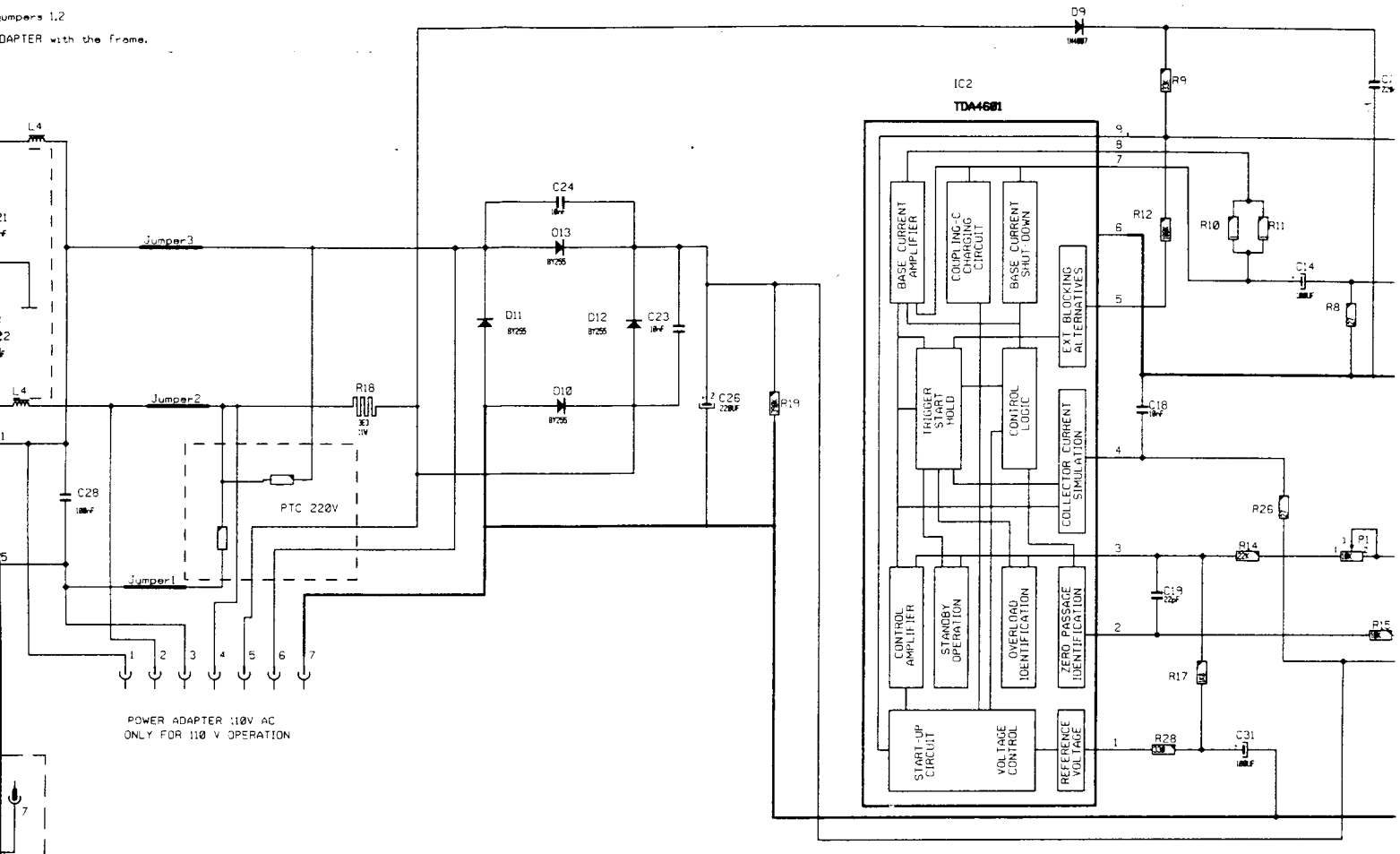

START-UP CIRCUIT
VOLTAGE CONTROL
REFERENCE VOLTAGE
R17
R28
C31
R20
R21
G2
TVK-196-17
D51
Focus
C67
R66
R67
G
HT
R102
D50
C102
C101
C61
T51
7741227
C62
D56
R63
R64
Q52
L5
C63
L50
R69
R59
C58
HORIZONTAL DEFLECTION
C60
T50
773360
R65
D52
C64
D53
L100
C65
C113
R126
Q51
C59
R62
R61
R151
C200
C201
C158
C202
78 1273
J4
To decoder
1 red
4 gree
7 blue
10 cat
IC100
TDA2653
GUARD CIRCUIT
OSCILLATOR
FREQUENCY DETECTOR
FLYBACK GENERATOR
VOLTAGE STABILIZER
SAWTOOTH GENERATOR
R105
C107
R104
C106
R93
R101
C103
C104
R102
C105
C102
R113
P95
C115
VERTICAL DEFLECTION
J9
C109
C114
Horizontal amplitude
Hor PCC distortion
P103
R118
P105
R121
P96
P102
R115
Vertical Amplitude
R116
R127
R117
R119
R122
C111
R125
C112
Q102
Q100
Q101
P104
C110
R120
R123
Trapezium distortion

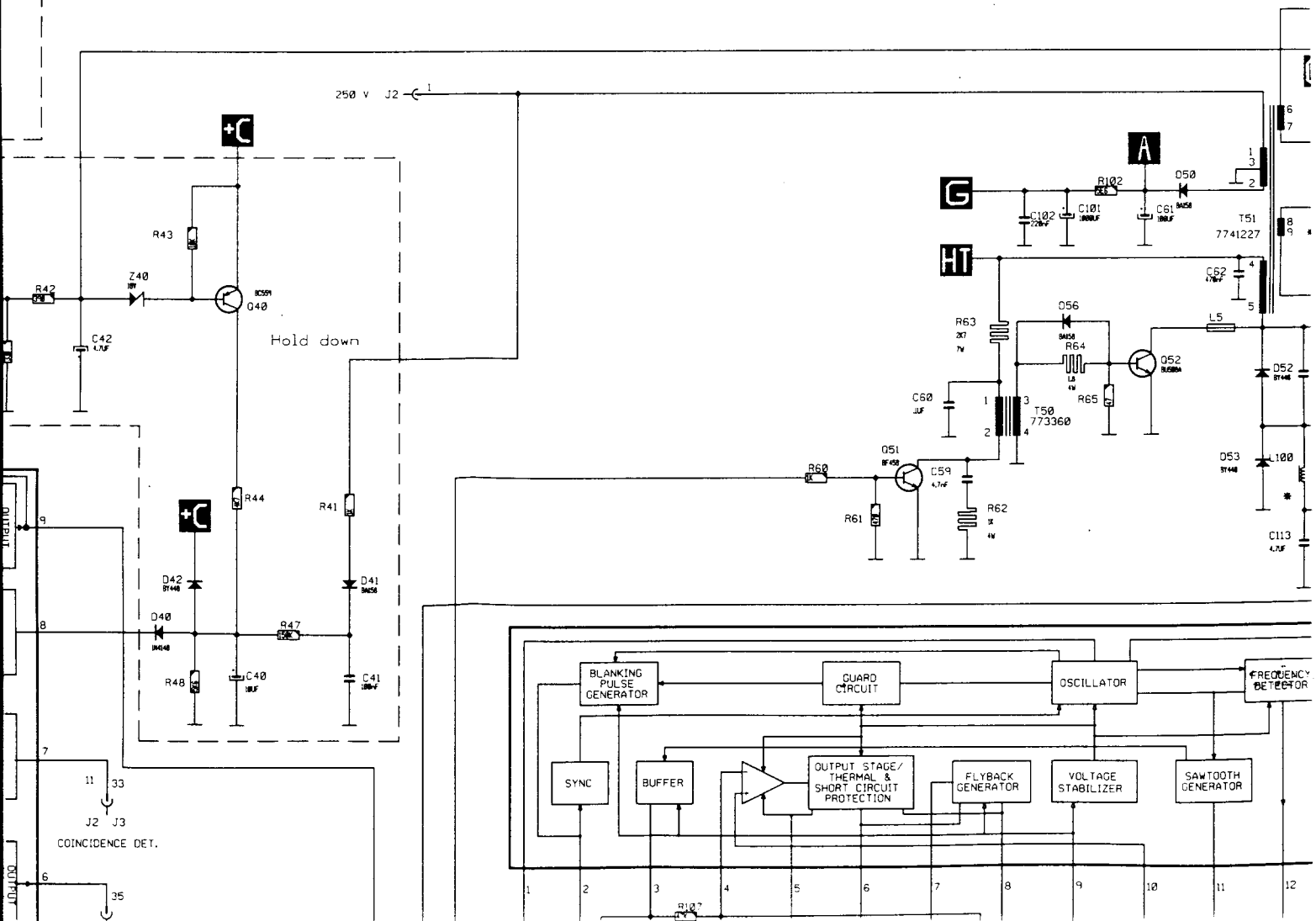

5 Grid Nr 1
6 Cathode of green gun
7 Grid Nr 5
8 Cathode of red gun
9 heater
10 heater
11 Cathode of blue gun
12 IC
TVK-196-17
D51
Focus
EHT
FOCUS
heater
HORIZONTAL DEFLECTION
VERTICAL DEFLECTION
R155
G1
G3
D78
R151
D55
C151
G2
cathode red
R156
C200
D200
Q200
R201
R204
R150
R154
P150
G2 adjustment
C150
R152
J6 J6
TO DEGAUSING J6
R159
cathode green
C201
D201
Q201
R202
R205
R158
R157
C202
D202
Q202
R203
cathode blue
76 1273
J4
J5
C203
D203
To decoder
To decoder
1 red
4 green
7 blue
10 cathode
Voltage on board
These adjustments can only be made when this set is into the SCAN REDUCTION MODE
PRODUCT SAFETY NOTICE
COMPONENTS MARKED WITH * OR ⚠ HAVE SPECIAL CHARACTERISTICS IMPORTANT TO SAFETY BEFORE REPLACING ANY OF THESE COMPONENTS, READ CAREFULLY THE SERVICE SAFETY PRECAUTIONS.
DO NOT DEGRADE THE SAFETY OF THIS SET THROUGH IMPROPER SERVICING
horizontal amplitude
P105
R121
R122
C111
R125
C112
R119
R120
Q100
Q101
Q102
R123
0.25W 0.50W 1W 1.5W
MODIFICATIONS RESERVED
Name
FRAME DCD 2740
Article nr.
76 13727
Date
04/02/88
Drawn
JVH
Checked
RDF
BARCO ELECTRONIC NV
Noordlaan 5
B-8720 KUURNE BELGIUM

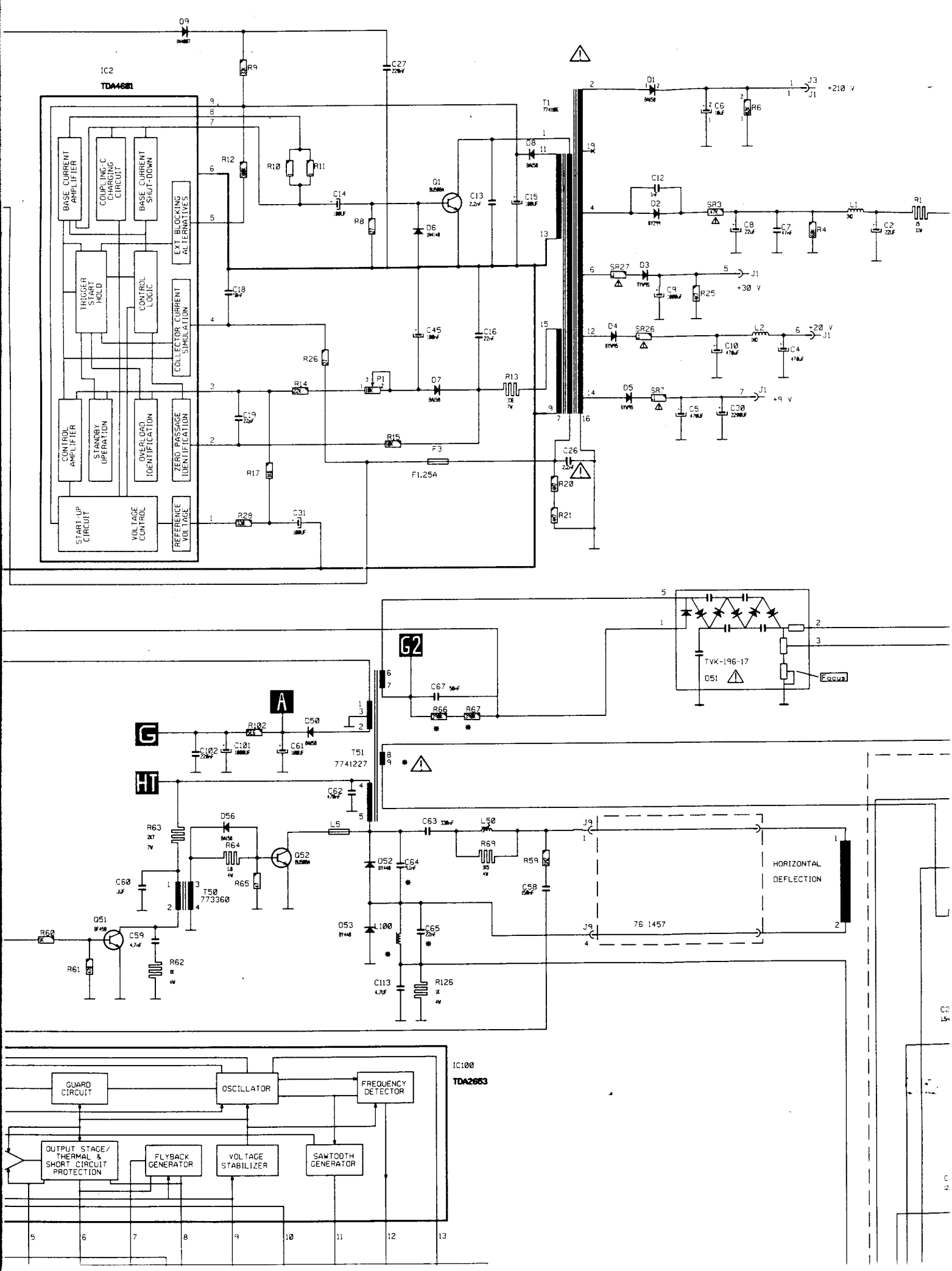

NOTE : for 110 V AC operation remove jumpers 1,2 and 3 and connect the 110 V ADAPTER with the frame.
J1
+210 V
GND
GND 30 V
+30 V
+20 V
+9 V
+20 V
SATURATION
CONTRAST
BRIGHTNESS
HUE
J3 (DECODER)
+210 V
SATURATION
CONTRAST
BRIGHTNESS
HUE
BC LIMITER
+15 V
RGB SWITCHING
RED
GREEN
BLUE
VIDEO
GND
COINCIDENCE DETECTOR
SANDCASLE
BLANKING
VERTICAL PULSES
J2
250 V
VERTICAL LOW
AV
RGB SWICHING
RED
GREEN
BLUE
VIDEO
GND
COINCIDENCE DETECTOR
VERTICAL PULSES
MAINS INPUT
F1
T4A
F2
T4A
L4
C21
C20
C22
Jumper3
Jumper2
Jumper1
R18
C28
TO DEGAUSING
PTC 220V
POWER ADAPTER 110V AC
ONLY FOR 110 V OPERATION
J6 1181 ADAPTOR 110 V
250 V
R43
Z40
Q40
R42
R68
C42
Hold down
R76
D14
R50
TDA2595
IC50
VIDEO
R72
R180
Q50
C56
C70
R70
R73
C72
R74
R44
R41
D42
D41
D40
R47
R48
C40
C41
C55
C66
R75
AV
GEN OF COMPOSITE SYNC SLICING LEVEL
VERT. SYNC SEPARATOR & VERT. SYNC PULSE INT.
TRESHOLD LOAD SENSOR SWITCH
OUTPUT STAGE FOR VERTICAL SYNC OR COMPOSITE
BLACK LEVEL DETERMIN. VIDEO & AMP.
HORIZONTAL SYNC SEPARATOR
VERTICAL SYNC COMPOSITE SYNC SWITCH
PROTECTION CIRCUIT
TV TRANSMITTER IDENT.
KEYING PULSE GENERATION
GATE
MUTING STAGE
COINCIDENCE DETECTOR
GATE MODE SWITCH
GATE
OUTPUT STAGE FOR GATING & HOR./VERT. BLANKING
J2 J3
COINCIDENCE DET.

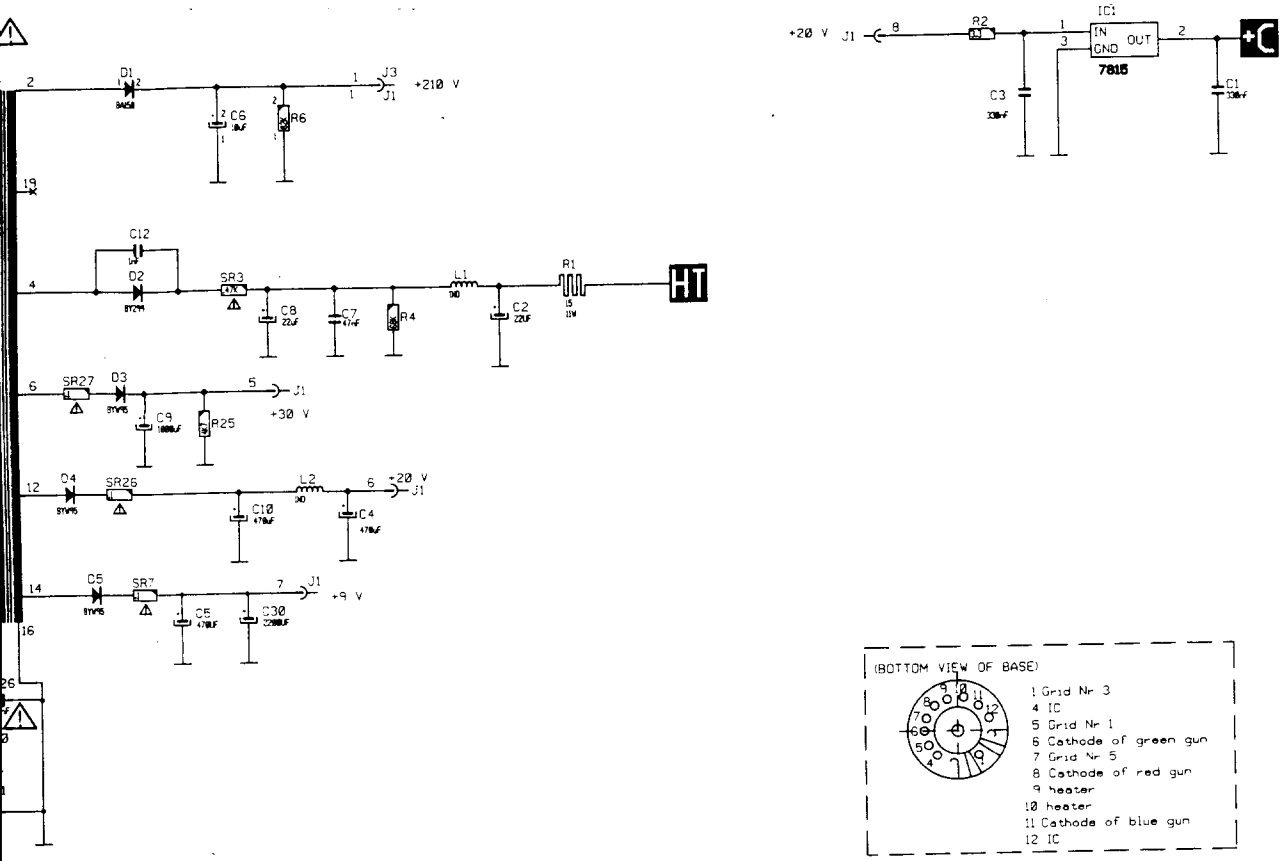
umpers 1.2

DAPTER with the frame.

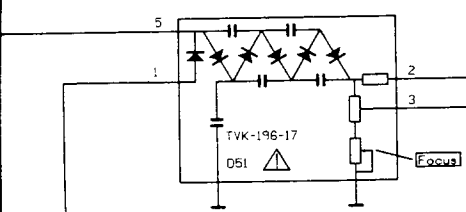


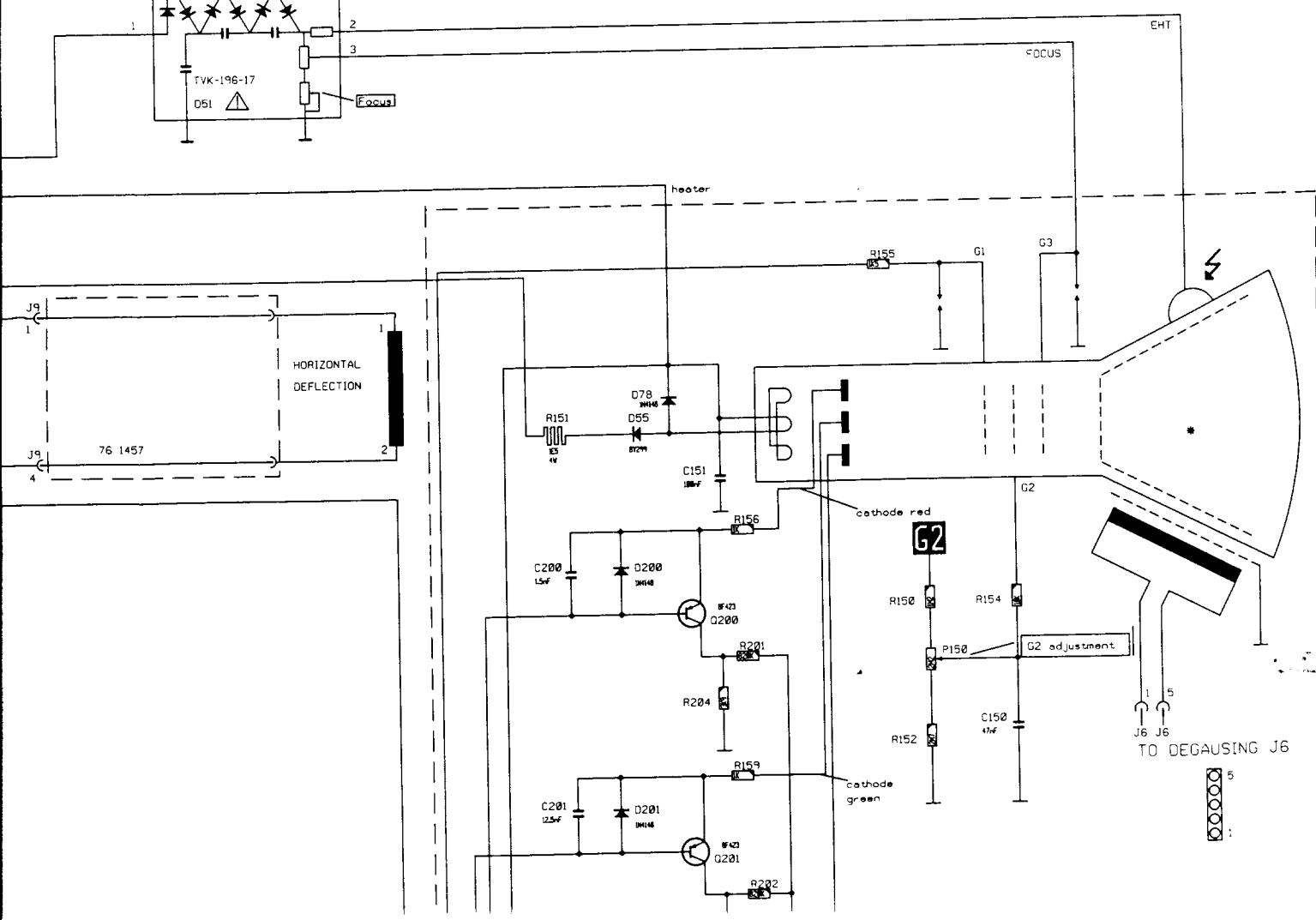


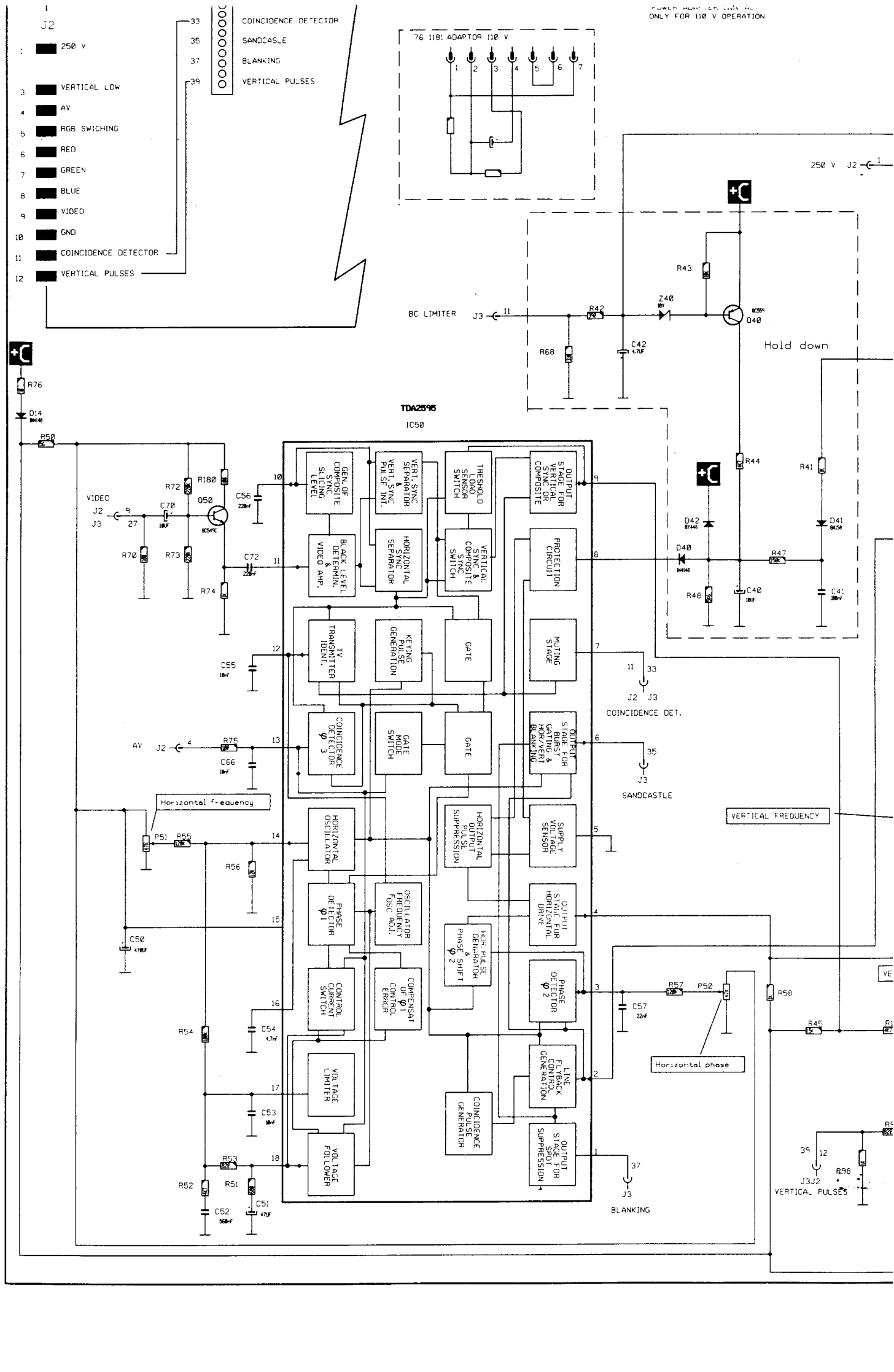

IC2
TDA4681
BASE CURRENT AMPLIFIER
COUPLING C CHARGING CIRCUIT
BASE CURRENT SHUT-DOWN
EXT. BLOCKING ALTERNATIVES
TRIGGER START HOLD
CONTROL LOGIC
COLLECTOR CURRENT SIMULATION
CONTROL AMPLIFIER
STANDBY OPERATION
OVERLOAD IDENTIFICATION
ZERO PASSAGE IDENTIFICATION
START-UP CIRCUIT
VOLTAGE CONTROL
REFERENCE VOLTAGE
+210 V
+30 V
+20 V
+9 V
F1.25A
TVK-196-17
Focus
T51
7741227
T50
773360
HORIZONTAL DEFLECTION
76 1457
IC100
TDA2653
GUARD CIRCUIT
OSCILLATOR
FREQUENCY DETECTOR
OUTPUT STAGE/ THERMAL & SHORT CIRCUIT PROTECTION
FLYBACK GENERATOR
VOLTAGE STABILIZER
SAWTOOTH GENERATOR

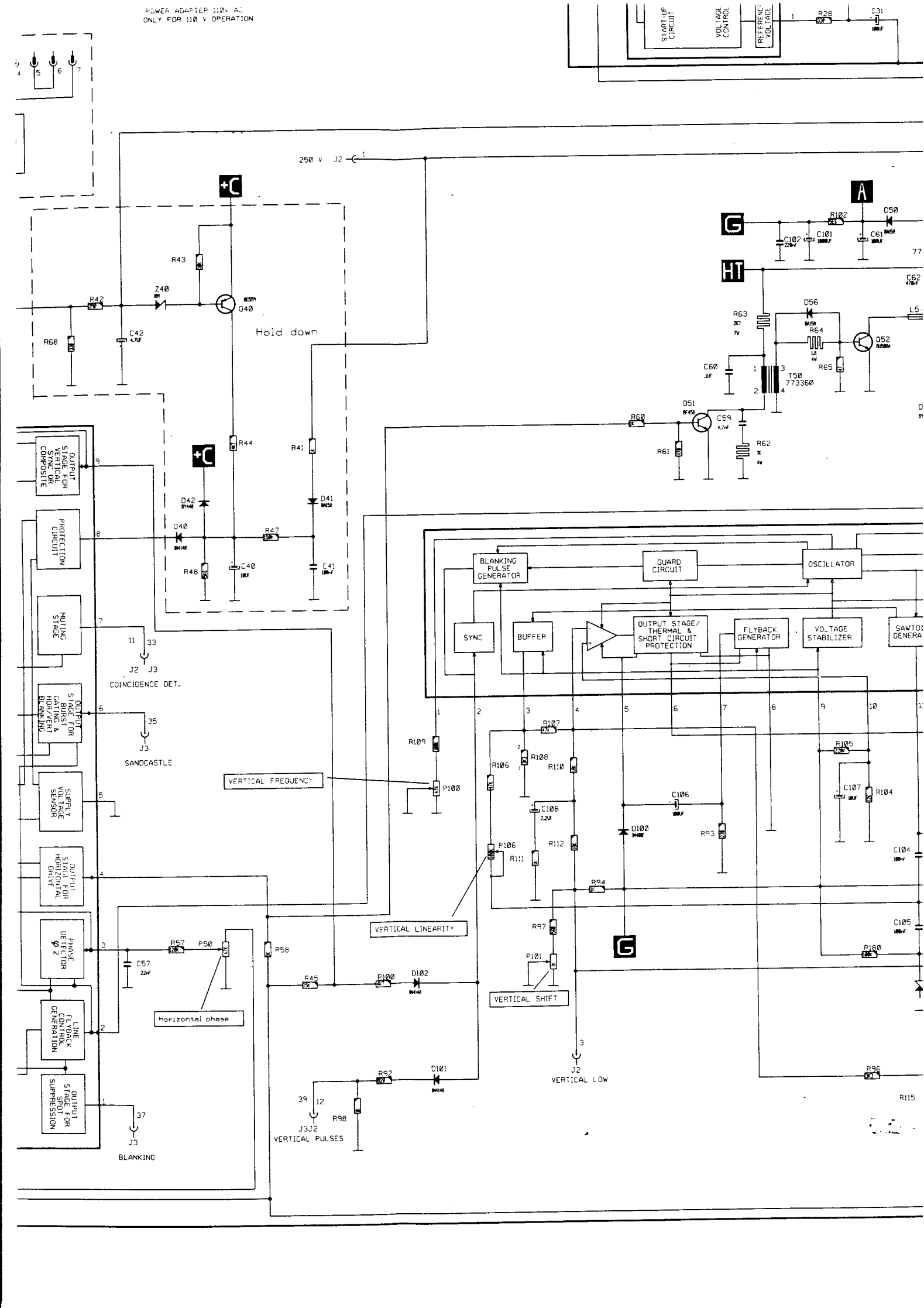

+20 V J1
IC1
IN
GND
OUT
7815
+C
C3
C1
D1
J3
+210 V
C6
R6
C12
D2
SR3
L1
R1
HT
C8
C7
R4
C2
SR27
D3
+30 V
C9
R25
D4
SR26
L2
+20 V
C10
C4
D5
SR7
+9 V
C5
C30

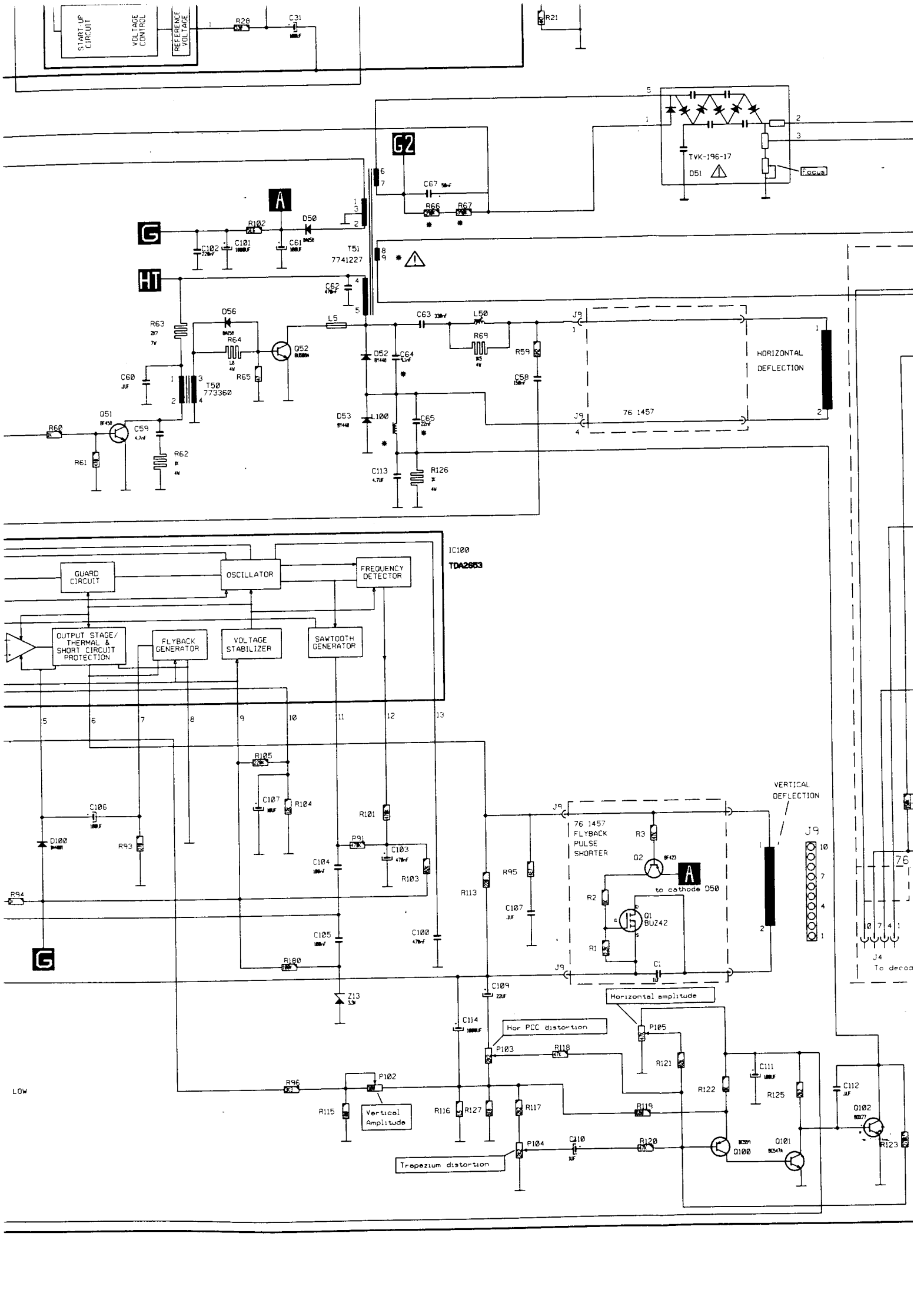
(BOTTOM VIEW OF BASE)
1 Grid Nr 3
4 IC
5 Grid Nr 1
6 Cathode of green gun
7 Grid Nr 5
8 Cathode of red gun
9 heater
10 heater
11 Cathode of blue gun
12 IC


TVK-196-17
D51
Focus

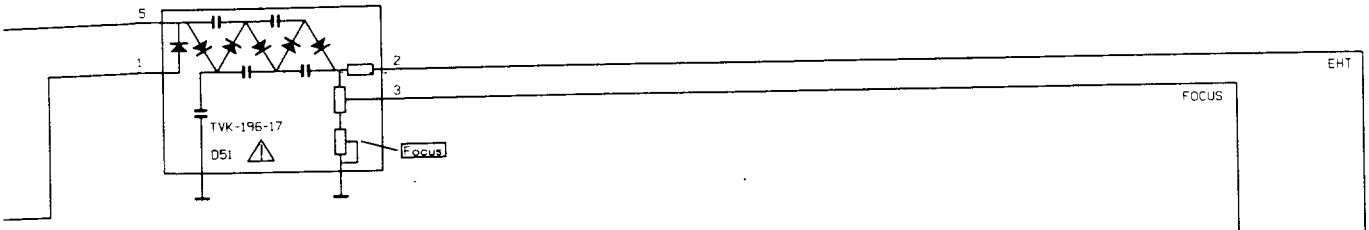

EHT
FOCUS
heater
R155
G1
G3
J9
HORIZONTAL
DEFLECTION
76 1457
D78
R151
D55
C151
R156
G2
cathode red
C200
D200
Q200
R201
R204
R159
cathode
green
C201
D201
Q201
R202
R150
R154
P150
G2 adjustment
R152
C150
J6 J6
TO DEGAUSING J6

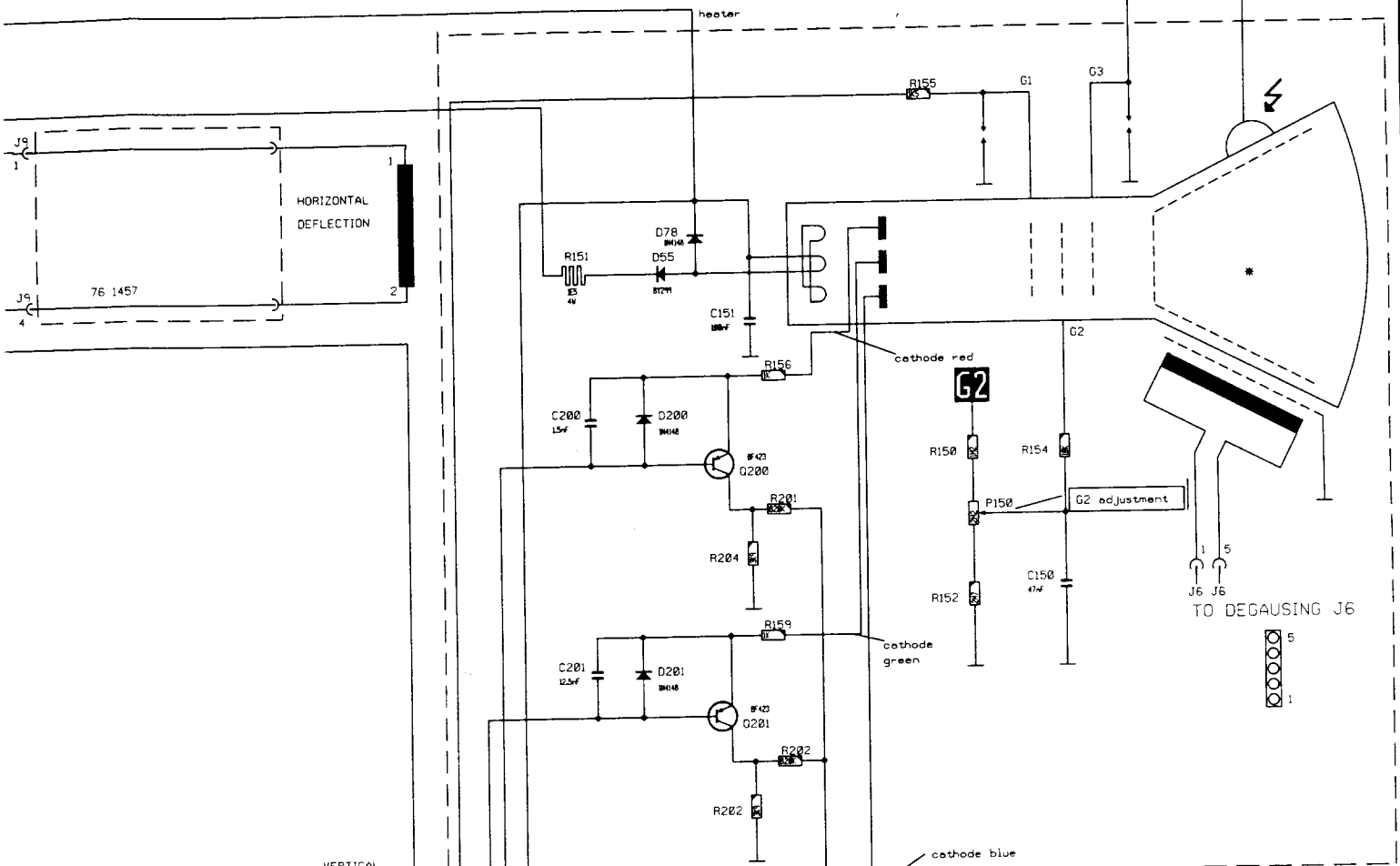

J2
250 V
VERTICAL LOW
AV
RGB SWITCHING
RED
GREEN
BLUE
VIDEO
GND
COINCIDENCE DETECTOR
VERTICAL PULSES
33
35
37
39
COINCIDENCE DETECTOR
SANDCASLE
BLANKING
VERTICAL PULSES
76 118! ADAPTOR 110 V
ONLY FOR 110 V OPERATION
250 V J2
R43
Z40
BC LIMITER
J3
R42
Q40
R68
C42
Hold down
TDA2595
IC50
R76
D14
R50
VIDEO
J2
J3
R72
R180
C70
Q50
R70
R73
R74
C56
C72
C55
AV
R75
C66
Horizontal frequency
P51
R55
R56
C50
R54
C54
R53
R52
R51
C52
C51
R44
R41
D42
D41
D40
R47
R48
C40
C41
J2 J3
COINCIDENCE DET.
J3
SANDCASTLE
VERTICAL FREQUENCY
R57
P50
C57
R58
R45
Horizontal phase
J3J2
R98
VERTICAL PULSES
J3
BLANKING
GEN. OF COMPOSITE SYNC SLICING LEVEL
VERT. SYNC SEPARATOR VERT. SYNC PULSE INT.
TRESHOLD LOAD SENSOR SWITCH
OUTPUT STAGE FOR VERTICAL SYNC OR COMPOSITE
BLACK LEVEL DETERMIN. VIDEO AMP.
HORIZONTAL SYNC SEPARATOR
VERTICAL SYNC & COMPOSITE SYNC SWITCH
PROTECTION CIRCUIT
TV TRANSMITTER IDENT.
KEYING PULSE GENERATION
GATE
MUTING STAGE
COINCIDENCE DETECTOR φ 3
GATE MODE SWITCH
GATE
OUTPUT STAGE FOR 'BURST' GATING & HOR/VERT BLANKING
HORIZONTAL OSCILLATOR
HORIZONTAL OUTPUT PULSE SUPPRESSION
SUPPLY VOLTAGE SENSOR
PHASE DETECTOR φ 1
OSCILLATOR FREQUENCY fOSC ADJ.
OUTPUT STAGE FOR HORIZONTAL DRIVE
HOR. PULSE GENERATOR PHASE SHIFT φ 2
CONTROL CURRENT SWITCH
COMPENSAT OF φ 1 CONTROL ERROR
PHASE DETECTOR φ 2
VOLTAGE LIMITER
LINE FLYBACK CONTROL GENERATION
COINCIDENCE PULSE GENERATOR
OUTPUT STAGE FOR SPOT SUPPRESSION
VOLTAGE FOLLOWER

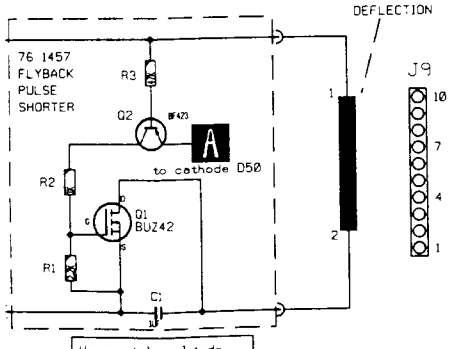

POWER ADAPTER 110 V AC
ONLY FOR 110 V OPERATION
250 V
J2
+C
R43
Z40
R42
Q40
R68
C42
Hold down
R44
R41
D42
D41
D40
R47
R48
C40
C41
OUTPUT STAGE FOR VERT. SYNC OR COMPOSITE
PROTECTION CIRCUIT
MUTING STAGE
OUTPUT STAGE FOR BURST GATING & HOR. BLANKING
SUPPLY VOLTAGE SENSOR
OUTPUT STAGE FOR HORIZONTAL DRIVE
PHASE DETECTOR 2
LINE FLYBACK CONTROL GENERATION
OUTPUT STAGE FOR SPOT SUPPRESSION
J2 J3
COINCIDENCE DET.
SANDCASTLE
BLANKING
J3
VERTICAL FREQUENCY
P100
R109
R57
P50
C57
R58
R45
P100
D102
Horizontal phase
VERTICAL LINEARITY
P101
VERTICAL SHIFT
R92
D101
J3J2
VERTICAL PULSES
R98
J2
VERTICAL LOW
BLANKING PULSE GENERATOR
GUARD CIRCUIT
OSCILLATOR
SYNC
BUFFER
OUTPUT STAGE/ THERMAL & SHORT CIRCUIT PROTECTION
FLYBACK GENERATOR
VOLTAGE STABILIZER
SAWTOOTH GENERA
R107
R108
R106
R110
C108
R112
R111
P106
C106
D100
R93
R94
R97
R105
C107
R104
C104
C105
R180
R96
R115
START-UP CIRCUIT
VOLTAGE CONTROL
REFERENCE VOLTAGE
R28
C31
A
G
HT
R102
D50
C102
C101
C61
C62
D56
R63
R64
Q52
C60
R65
T50
773360
Q51
C59
R60
R61
R62

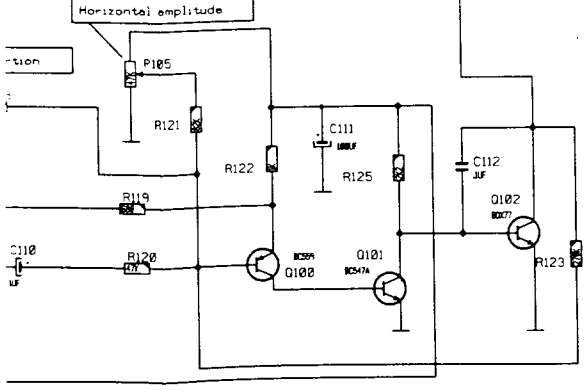

START UP CIRCUIT
VOLTAGE CONTROL
REFERENCE VOLTAGE
R28
C31
R21
G2
TVK-196-17
D51
Focus
C67
R66
R67
A
G
HT
R102
D50
C102
C101
C61
T51
7741227
C62
D56
R63
R64
R65
Q52
L5
C63
L50
R69
R59
C58
J9
HORIZONTAL DEFLECTION
76 1457
C60
T50
773360
Q51
C59
R60
R61
R62
D52
C64
D53
L100
C65
C113
R126
IC100
TDA2653
GUARD CIRCUIT
OSCILLATOR
FREQUENCY DETECTOR
OUTPUT STAGE/ THERMAL & SHORT CIRCUIT PROTECTION
FLYBACK GENERATOR
VOLTAGE STABILIZER
SAWTOOTH GENERATOR
R105
C107
R104
C106
D100
R93
R101
R91
C103
C104
R103
R94
C105
C100
R100
Z13
C109
C114
R96
P102
R115
Vertical Amplitude
R116
R127
R117
P104
C110
R120
Trapezium distortion
P103
Hor PCC distortion
R118
P105
Horizontal amplitude
R121
R122
C111
R125
R119
C112
Q102
R123
Q100
Q101
R95
R113
C107
76 1457 FLYBACK PULSE SHORTER
R3
Q2
R2
Q1 BUZ42
R1
Ci
to cathode D50
VERTICAL DEFLECTION
J4
To deco
LOW

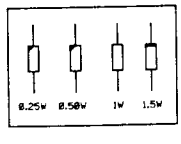
8 Cathode of red gun
9 heater
10 heater
11 Cathode of blue gun
12 IC











Voltage on board

These adjustments can only be made when this set is into the SCAN REDUCTION MODE

PRODUCT SAFETY NOTICE

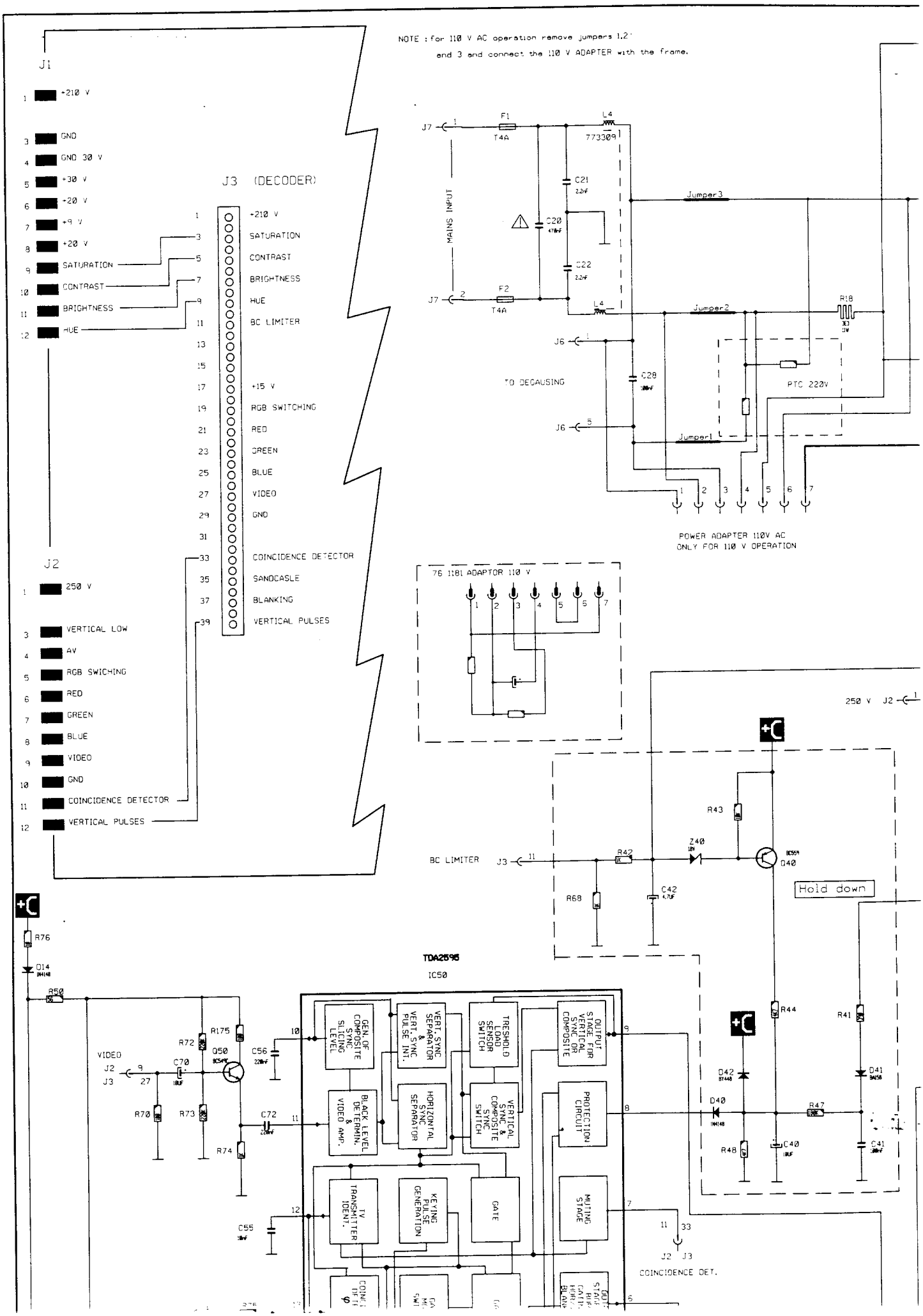
COMPONENTS MARKED WITH * OR ⚠ HAVE SPECIAL CHARACTERISTICS IMPORTANT TO SAFETY BEFORE REPLACING ANY OF THESE COMPONENTS. READ CAREFULLY THE SERVICE SAFETY PRECAUTIONS.

DO NOT DEGRADE THE SAFETY OF THIS SET THROUGH IMPROPER SERVICING

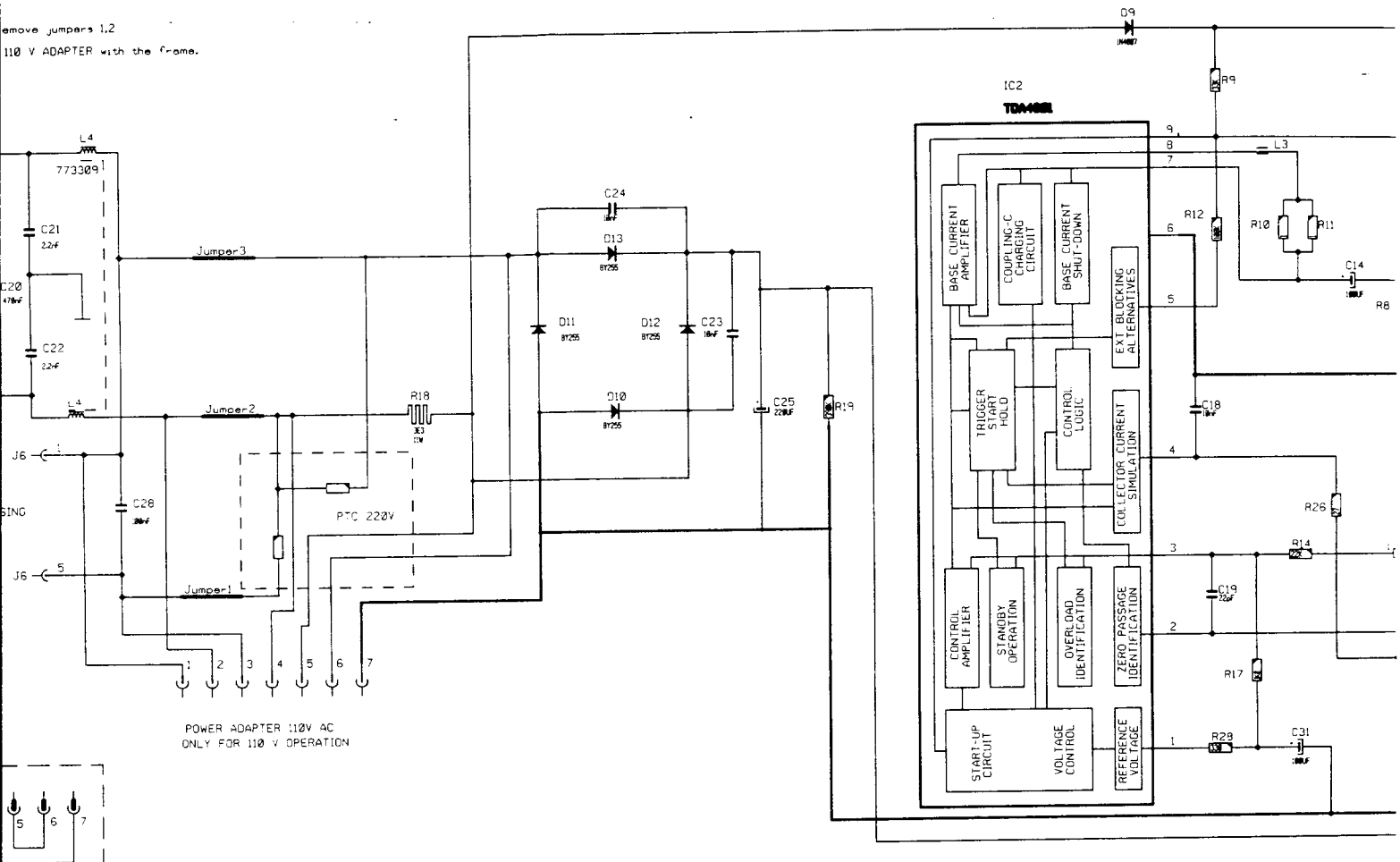
MODIFICATIONS RESERVED

Name: FRAME DCD 2740 DATA		Article nr: 76 14084
Date: 02/02/88	Drawn: JVH	Checked: RDF

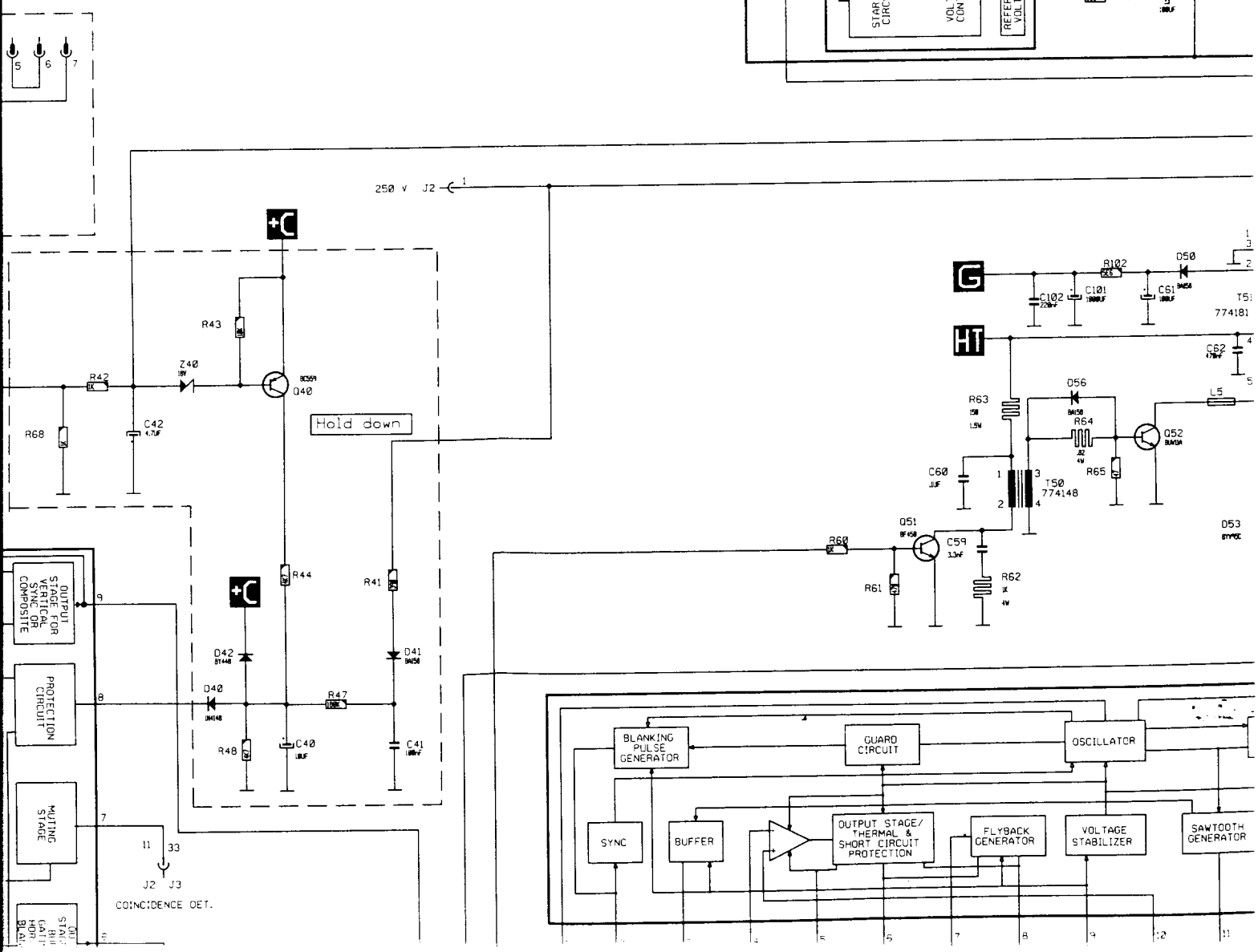
BARCO ELECTRONIC NV Noordlaan 5 B-8720 KUURNE BELGIUM

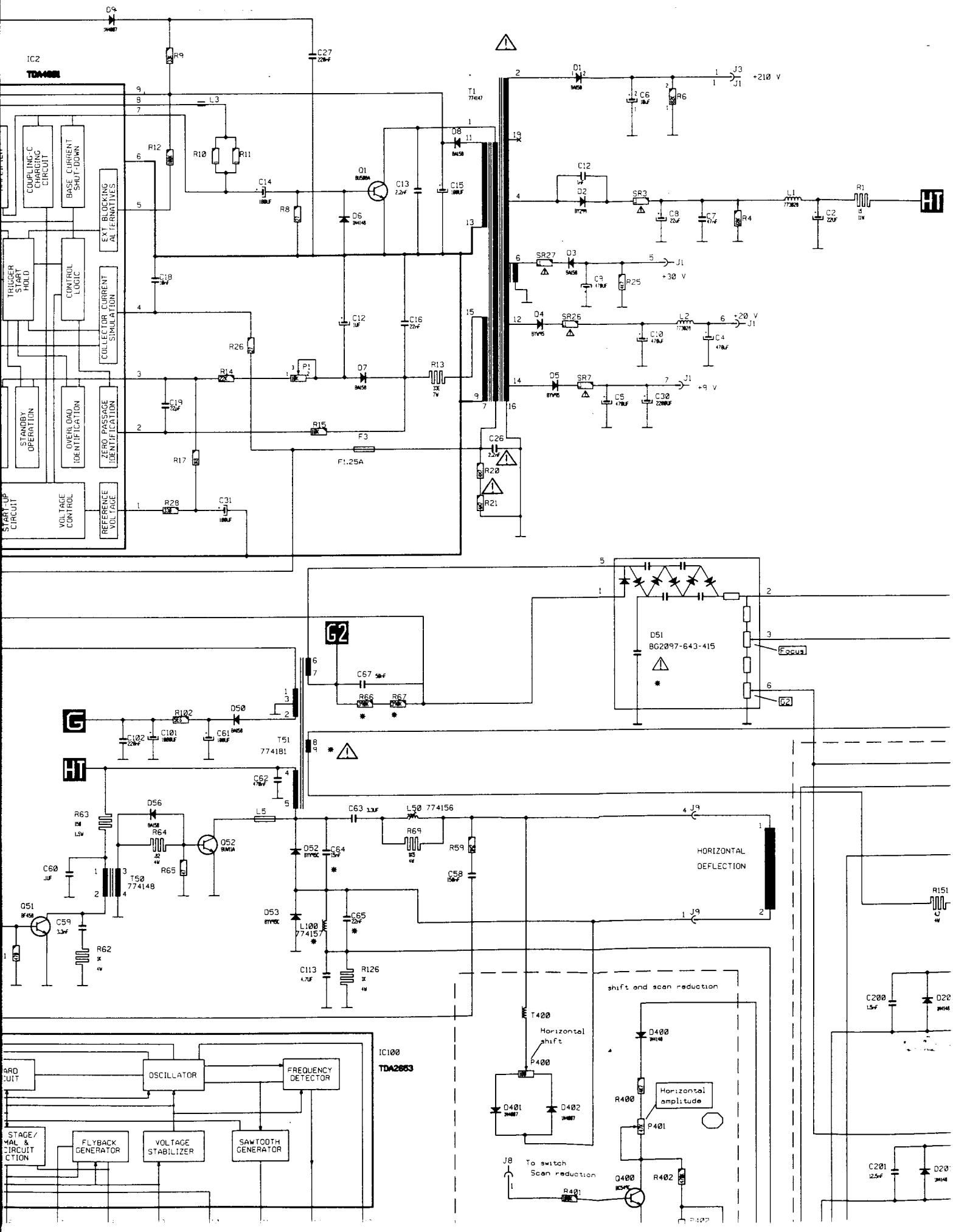

NOTE : for 110 V AC operation remove jumpers 1,2 and 3 and connect the 110 V ADAPTER with the frame.
J1
+210 V
GND
GND 30 V
+30 V
+20 V
+9 V
+20 V
SATURATION
CONTRAST
BRIGHTNESS
HUE
J3 (DECODER)
+210 V
SATURATION
CONTRAST
BRIGHTNESS
HUE
BC LIMITER
+15 V
RGB SWITCHING
RED
GREEN
BLUE
VIDEO
GND
COINCIDENCE DETECTOR
SANDCASLE
BLANKING
VERTICAL PULSES
J2
250 V
VERTICAL LOW
AV
RGB SWICHING
RED
GREEN
BLUE
VIDEO
GND
COINCIDENCE DETECTOR
VERTICAL PULSES
J7
F1
T4A
F2
T4A
L4
773309
MAINS INPUT
C21
C20
C22
Jumper3
Jumper2
Jumper1
R18
J6
TO DECAUSING
C28
PTC 220V
POWER ADAPTER 110V AC
ONLY FOR 110 V OPERATION
76 1181 ADAPTOR 110 V
250 V
R43
Z40
D40
BC LIMITER
R42
R68
C42
Hold down
TDA2595
IC50
R76
D14
R50
VIDEO
R72
R175
Q50
C56
C70
R70
R73
C72
R74
C55
GEN. OF COMPOSITE SYNC SLICING LEVEL
VERT. SYNC SEPARATOR
VERT. SYNC PULSE INT.
TRESHOLD LOAD SENSOR SWITCH
OUTPUT STAGE FOR VERTICAL SAWTOOTH COMPOSITE
BLACK LEVEL DETERMIN. & VIDEO AMP.
HORIZONTAL SYNC SEPARATOR
VERTICAL SYNC & COMPOSITE SYNC SWITCH
PROTECTION CIRCUIT
TV TRANSMITTER IDENT.
KEYING PULSE GENERATION
GATE
MUTING STAGE
R44
R41
D42
D41
D40
R47
R48
C40
C41
J2 J3
COINCIDENCE DET.

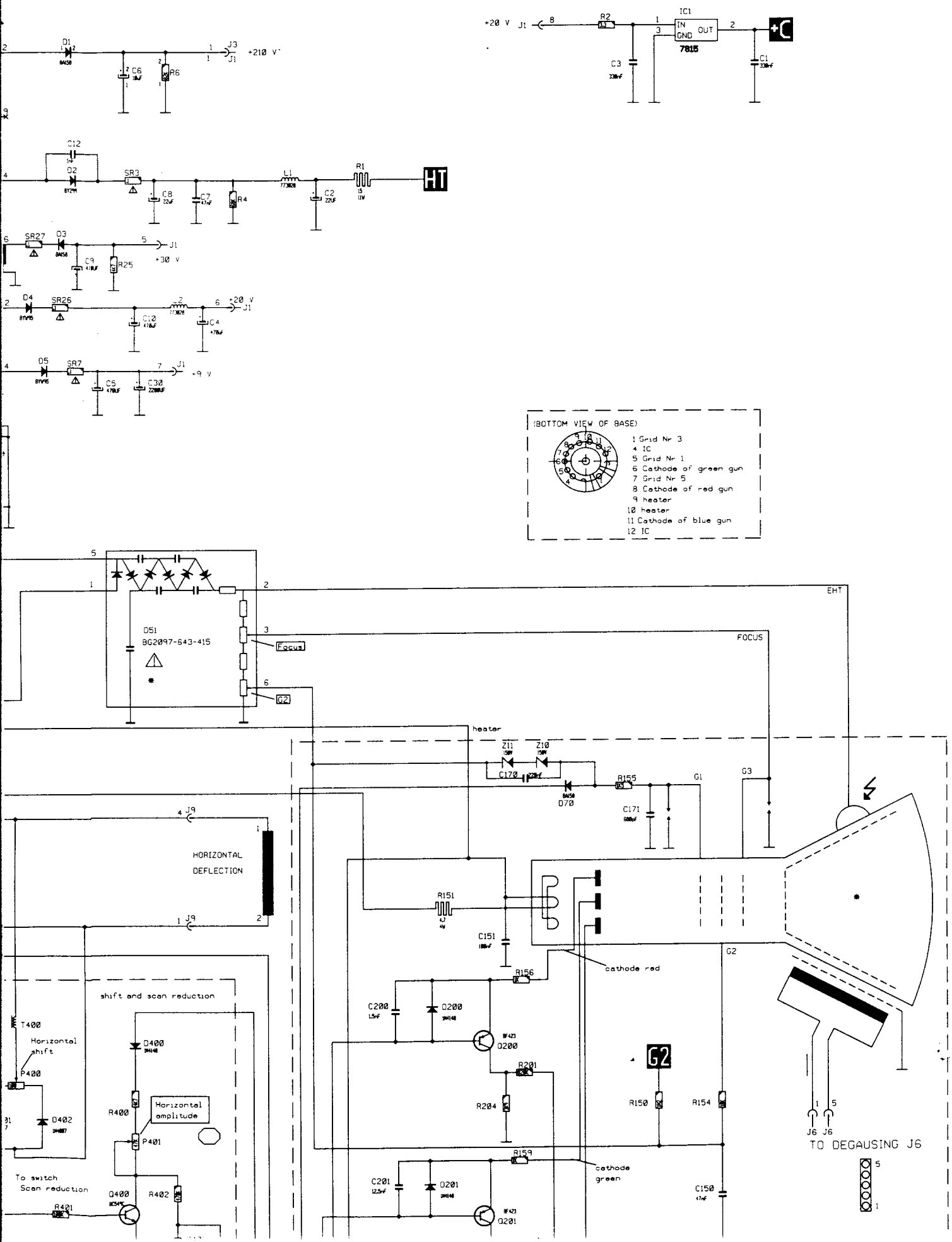
emove jumpers 1.2
110 V ADAPTER with the frame.

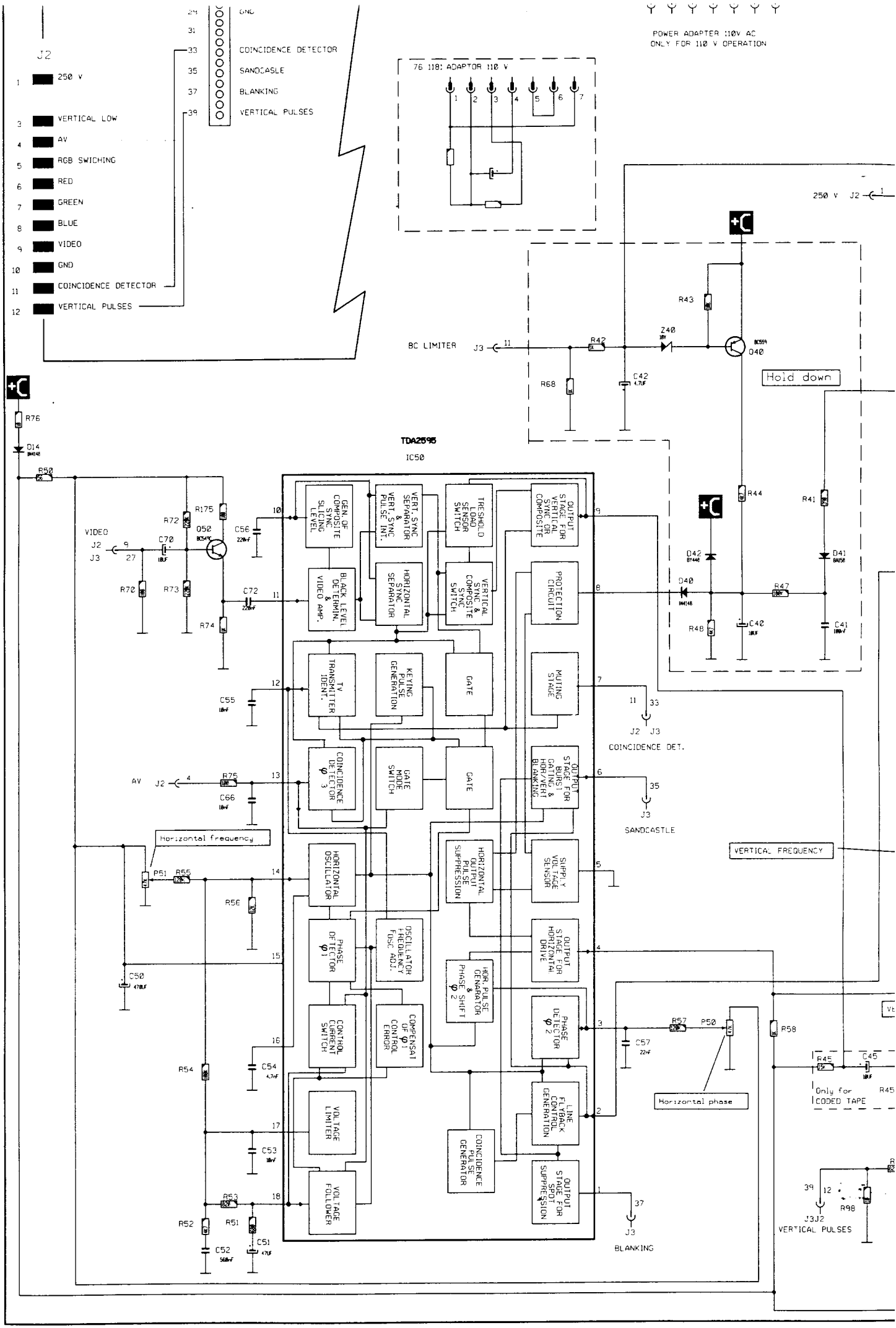


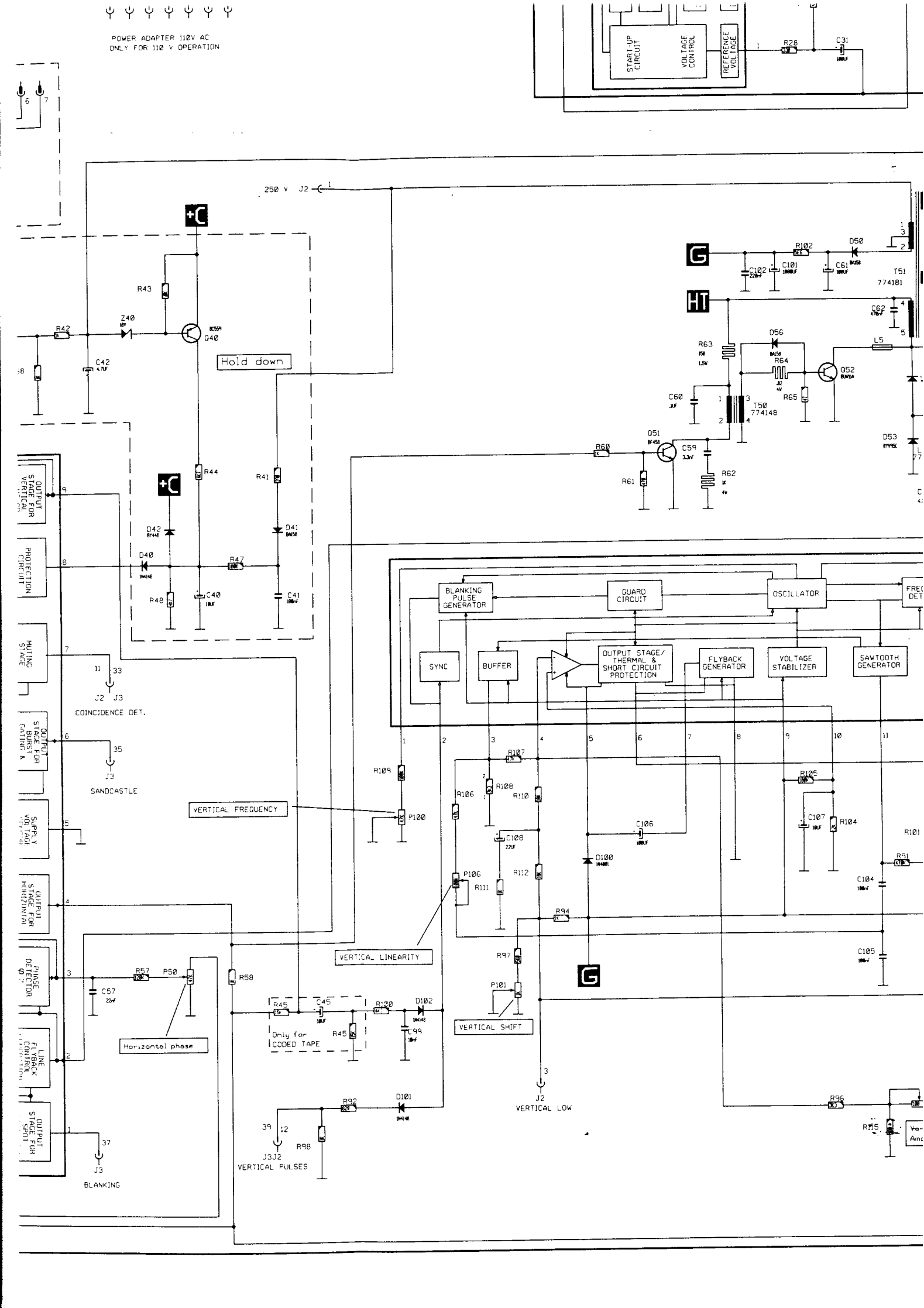
POWER ADAPTER 110V AC
ONLY FOR 110 V OPERATION

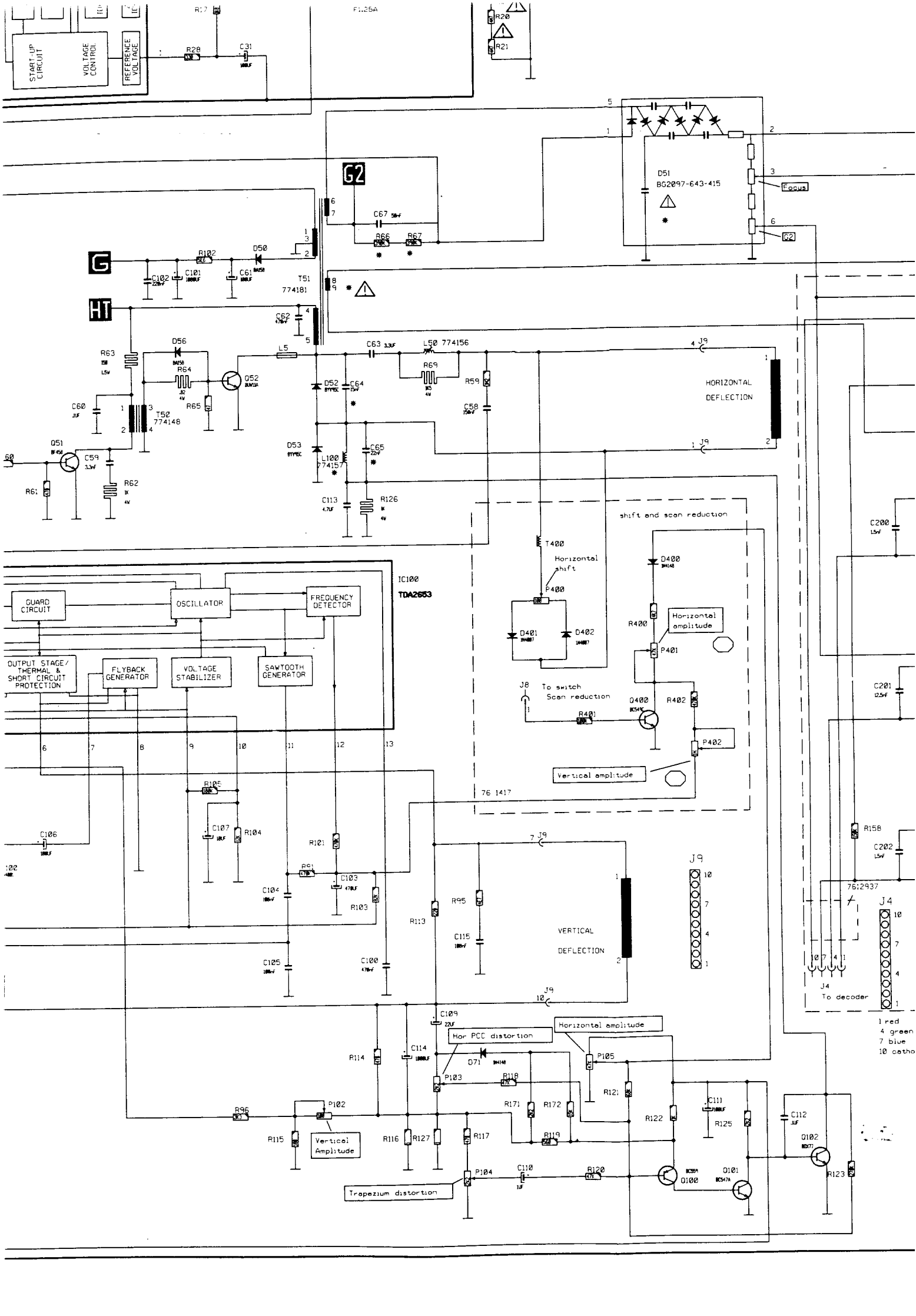


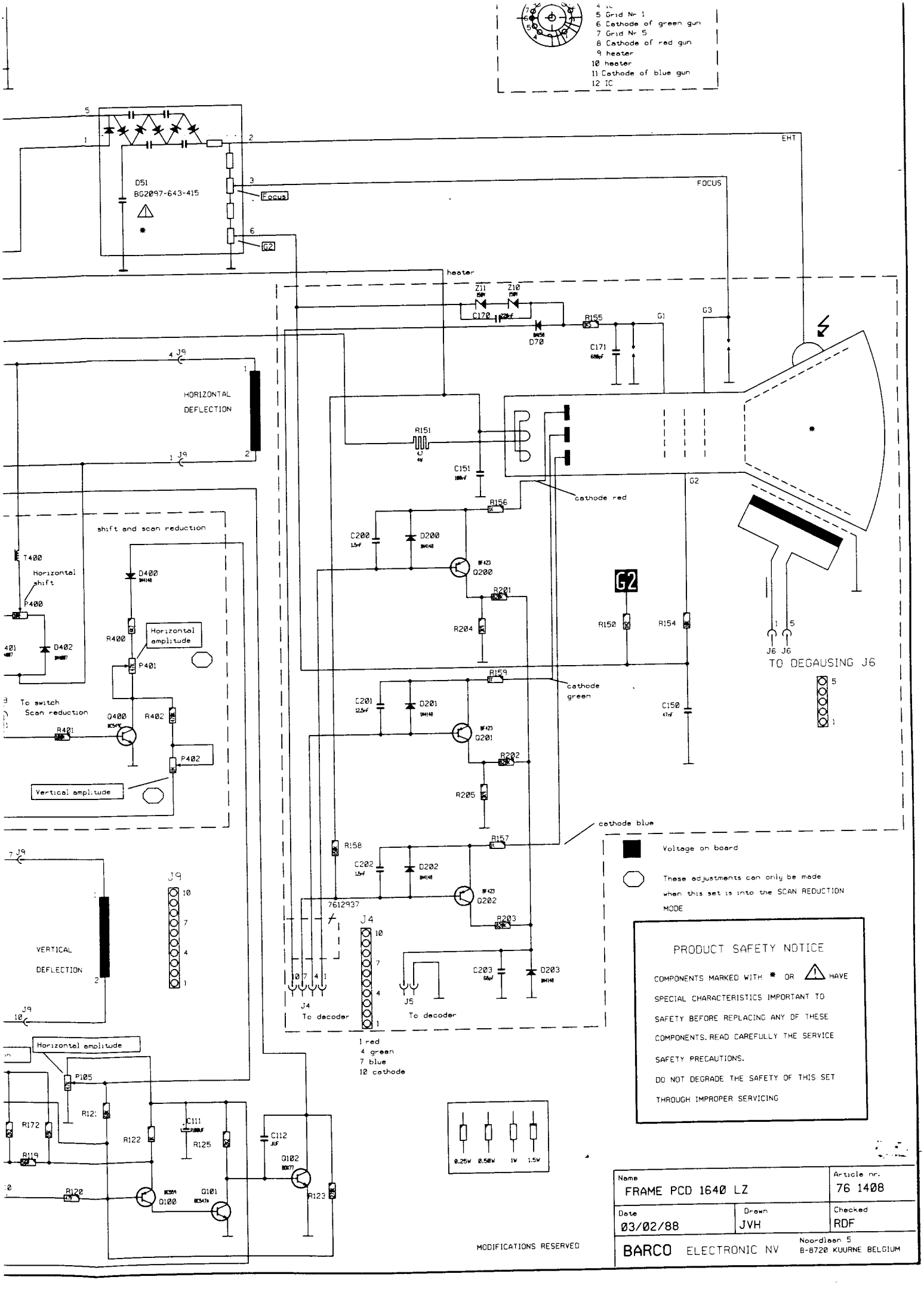

IC2
TDA4851
COUPLING-C CHARGING CIRCUIT
BASE CURRENT SHUT-DOWN
EXT. BLOCKING ALTERNATIVES
TRIGGER START HOLD
CONTROL LOGIC
COLLECTOR CURRENT SIMULATION
STANDBY OPERATION
OVERLOAD IDENTIFICATION
ZERO PASSAGE IDENTIFICATION
START-UP CIRCUIT
VOLTAGE CONTROL
REFERENCE VOLTAGE
+210 V
+30 V
+20 V
+9 V
HT
F1.25A
F3
G2
G
D51
BG2097-643-415
Focus
HORIZONTAL DEFLECTION
T51
774181
T50
774148
L5
L50 774156
L100
774157
Q51
Q52
Q1
IC100
TDA2653
OSCILLATOR
FREQUENCY DETECTOR
FLYBACK GENERATOR
VOLTAGE STABILIZER
SAWTOOTH GENERATOR
shift and scan reduction
T400
Horizontal shift
P400
Horizontal amplitude
P401
To switch Scan reduction
J8

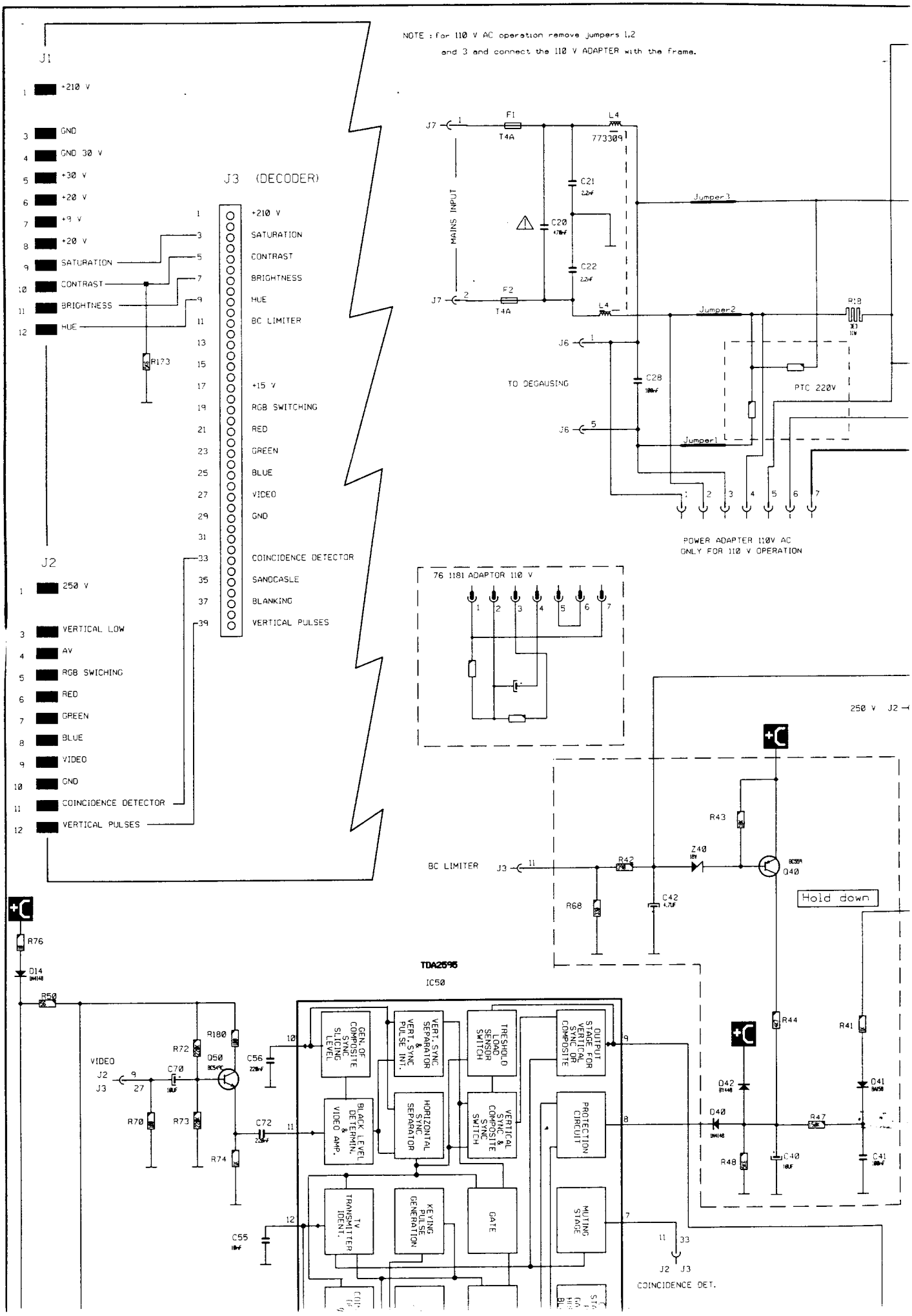

+20 V J1
IC1
IN
GND
OUT
7815
+C
C3
C1
D1
J3
J1
+210 V
C6
R6
C12
D2
SR3
L1
R1
HT
C8
C7
R4
C2
SR27
D3
J1
+30 V
C9
R25
D4
SR26
+20 V
C10
C4
D5
SR7
J1
+9 V
C5
C30
(BOTTOM VIEW OF BASE)
1 Grid Nr 3
4 IC
5 Grid Nr 1
6 Cathode of green gun
7 Grid Nr 5
8 Cathode of red gun
9 heater
10 heater
11 Cathode of blue gun
12 IC
D51
8G2097-643-415
Focus
G2
EHT
FOCUS
heater
Z11
Z10
C170
D70
R155
G1
G3
C171
HORIZONTAL
DEFLECTION
J9
R151
C151
R156
cathode red
G2
shift and scan reduction
T400
Horizontal
shift
P400
D400
D402
R400
Horizontal
amplitude
P401
C200
D200
Q200
R201
R204
R150
R154
G2
J6 J6
TO DEGAUSING J6
To switch
Scan reduction
Q400
R402
R401
R159
cathode
green
C201
D201
Q201
C150


J2
1 250 V
3 VERTICAL LOW
4 AV
5 RGB SWICHING
6 RED
7 GREEN
8 BLUE
9 VIDEO
10 GND
11 COINCIDENCE DETECTOR
12 VERTICAL PULSES
24 GND
31
33 COINCIDENCE DETECTOR
35 SANDCASLE
37 BLANKING
39 VERTICAL PULSES
POWER ADAPTER 110V AC
ONLY FOR 110 V OPERATION
76 118: ADAPTOR 110 V
250 V J2
R43
Z40
BC LIMITER
J3
R42
Q40
R68
C42
Hold down
TDA2595
IC50
R76
D14
R50
R175
R72
Q50
VIDEO
J2
J3
C70
C56
R70
R73
C72
R74
C55
AV
R75
C66
Horizontal frequency
P51
R55
R56
C50
R54
C54
C53
R53
R52
R51
C52
C51
R44
R41
D42
D41
D40
R47
R48
C40
C41
GEN. OF COMPOSITE SYNC SLICING LEVEL
VERT. SYNC SEPARATOR & VERT. SYNC PULSE INT.
TRESHOLD OVERLOAD SENSOR SWITCH
OUTPUT STAGE FOR VERTICAL SYNC OR COMPOSITE
BLACK LEVEL DETERMIN. & VIDEO AMP.
HORIZONTAL SYNC SEPARATOR
VERTICAL SYNC & COMPOSITE SYNC SWITCH
PROTECTION CIRCUIT
TV TRANSMITTER IDENT.
KEYING PULSE GENERATION
GATE
MUTING STAGE
COINCIDENCE DETECTOR Φ 3
GATE MODE SWITCH
GATE
OUTPUT STAGE FOR BURST & HOR./VERT. BLANKING
HORIZONTAL OSCILLATOR
HORIZONTAL OUTPUT PULSE SUPPRESSION
SUPPLY VOLTAGE SENSOR
PHASE DETECTOR Φ 1
OSCILLATOR FREQUENCY fOSC ADJ.
OUTPUT STAGE FOR HORIZONTAL DRIVE
HOR. PULSE GENERATOR & PHASE SHIFT Φ 2
CONTROL CURRENT SWITCH
COMPENSAT OF Φ1 CONTROL ERROR
PHASE DETECTOR Φ 2
LINE FLYBACK CONTROL GENERATION
VOLTAGE LIMITER
COINCIDENCE PULSE GENERATOR
OUTPUT STAGE FOR SPOT SUPPRESSION
VOLTAGE FOLLOWER
J2 J3
COINCIDENCE DET.
J3
SANDCASTLE
VERTICAL FREQUENCY
J3
BLANKING
R57
P50
C57
Horizontal phase
R58
R45
C45
Only for CODED TAPE
J3J2
VERTICAL PULSES
R98

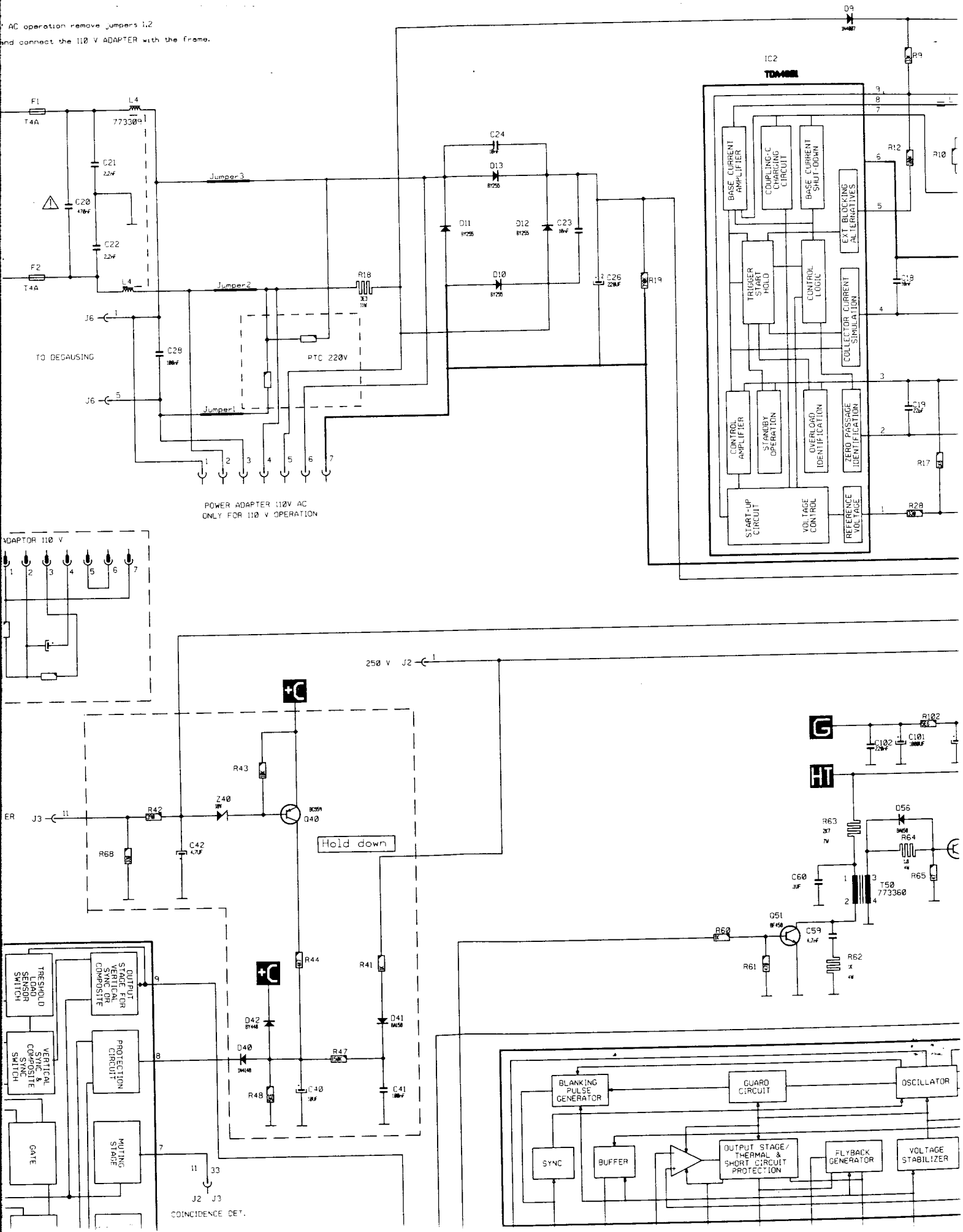

POWER ADAPTER 110V AC
ONLY FOR 110 V OPERATION
START-UP CIRCUIT
VOLTAGE CONTROL
REFERENCE VOLTAGE
R28
C31
250 V J2
+C
R43
R42
Z40
Q40
C42
Hold down
R44
R41
D42
D41
D40
R47
R48
C40
C41
OUTPUT STAGE FOR VERTICAL
PROTECTION CIRCUIT
MUTING STAGE
J2 J3
COINCIDENCE DET.
OUTPUT STAGE FOR BURST GATING &
J3
SANDCASTLE
SUPPLY VOLTAGE
OUTPUT STAGE FOR HORIZONTAL
PHASE DETECTOR
LINE FLYBACK CONTROL
OUTPUT STAGE FOR SPOT
J3
BLANKING
R57
P50
C57
Horizontal phase
R58
R45
C45
R120
D102
Only for CODED TAPE
C99
R92
D101
39 12
J3J2
VERTICAL PULSES
R98
VERTICAL LINEARITY
VERTICAL SHIFT
J2
VERTICAL LOW
VERTICAL FREQUENCY
P100
R109
R107
R106
R108
R110
C108
P106
R111
R112
C106
D100
R94
R97
P101
R105
C107
R104
R101
R91
C104
C105
R96
R115
HT
R102
D50
C102
C101
C61
T51
774181
C62
D56
R63
R64
Q52
L5
C60
T50
774148
R65
D53
Q51
C59
R60
R61
R62
BLANKING PULSE GENERATOR
GUARD CIRCUIT
OSCILLATOR
SYNC
BUFFER
OUTPUT STAGE/ THERMAL & SHORT CIRCUIT PROTECTION
FLYBACK GENERATOR
VOLTAGE STABILIZER
SAWTOOTH GENERATOR

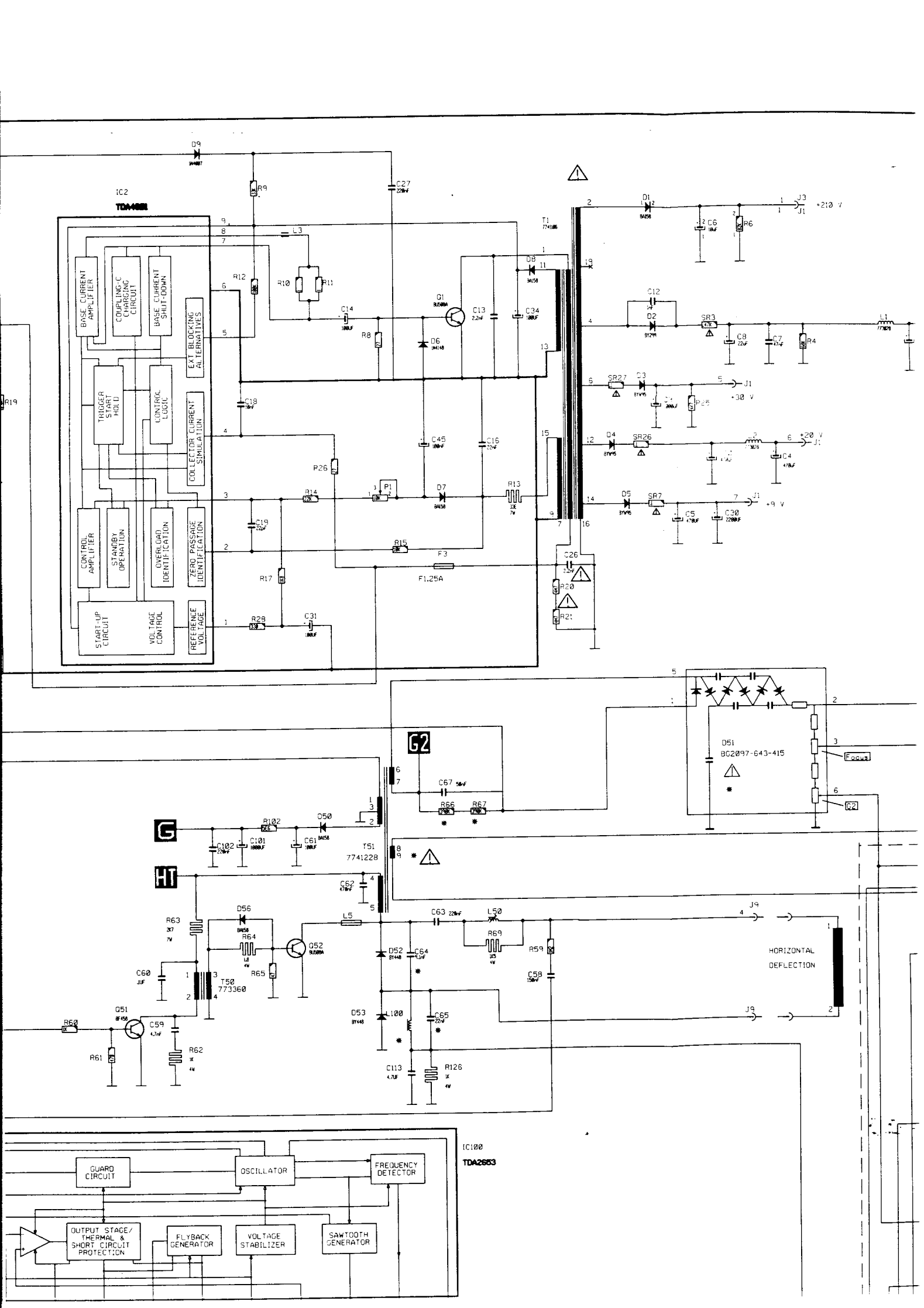

START-UP CIRCUIT
VOLTAGE CONTROL
REFERENCE VOLTAGE
R28
C31
R20
R21
G2
D51
BG2097-643-415
Focus
G2
G
HT
R102
D50
C102
C101
C61
T51
774181
C62
R63
D56
R64
Q52
C60
T50
774148
R65
L5
C63
L50 774156
R69
D52
C64
R59
C58
HORIZONTAL DEFLECTION
J9
Q51
C59
R61
R62
D53
L100
774157
C65
C113
R126
shift and scan reduction
T400
Horizontal shift
P400
D400
D401
D402
R400
Horizontal amplitude
P401
J8
To switch Scan reduction
Q400
R401
R402
P402
Vertical amplitude
76 1417
IC100
TDA2653
GUARD CIRCUIT
OSCILLATOR
FREQUENCY DETECTOR
OUTPUT STAGE/ THERMAL & SHORT CIRCUIT PROTECTION
FLYBACK GENERATOR
VOLTAGE STABILIZER
SAWTOOTH GENERATOR
R105
C107
R104
C106
R101
C103
C104
R103
R113
R95
C115
VERTICAL DEFLECTION
C105
C100
J9
C109
Hor PCC distortion
Horizontal amplitude
R114
C114
D71
P103
R118
P105
R121
R96
P102
R171
R172
R122
C111
R125
C112
R115
Vertical Amplitude
R116
R127
R117
R119
D102
R123
P104
C110
R120
Q100
Q101
Trapezium distortion
C200
C201
C202
R158
76 2937
J4
To decoder
1 red
4 green
7 blue
10 catho

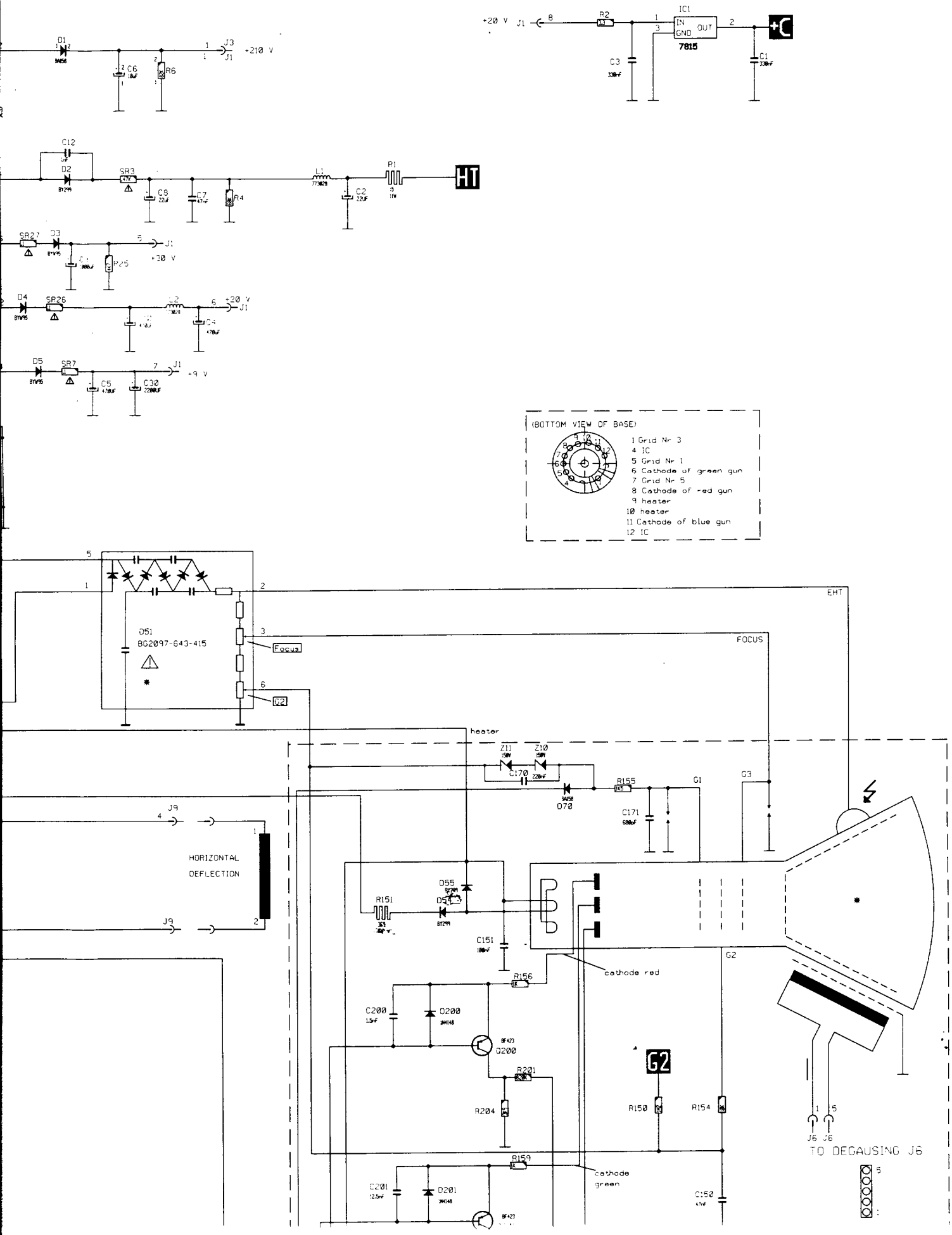

4 IC
5 Grid Nr 1
6 Cathode of green gun
7 Grid Nr 5
8 Cathode of red gun
9 heater
10 heater
11 Cathode of blue gun
12 IC
D51
BG2097-643-415
Focus
G2
EHT
FOCUS
heater
Z11
Z10
C170
D70
R155
G1
G3
C171
HORIZONTAL
DEFLECTION
J9
R151
C151
R156
cathode red
G2
C200
D200
Q200
R201
R204
R150
R154
J6 J6
TO DEGAUSING J6
shift and scan reduction
T400
Horizontal
shift
P400
D400
R400
Horizontal
amplitude
P401
D402
To switch
Scan reduction
Q400
R402
R401
P402
Vertical amplitude
R159
cathode
green
C201
D201
Q201
R202
R205
C150
cathode blue
R158
R157
C202
D202
Q202
R203
7612937
J4
J5
C203
D203
J4
To decoder
J5
To decoder
1 red
4 green
7 blue
10 cathode
VERTICAL
DEFLECTION
J9
Horizontal amplitude
P105
R172
R122
C111
R125
C112
Q102
R119
R120
Q100
Q101
R123
0.25W
0.50W
1W
1.5W
Voltage on board
These adjustments can only be made
when this set is into the SCAN REDUCTION
MODE
PRODUCT SAFETY NOTICE
COMPONENTS MARKED WITH * OR ⚠ HAVE
SPECIAL CHARACTERISTICS IMPORTANT TO
SAFETY BEFORE REPLACING ANY OF THESE
COMPONENTS. READ CAREFULLY THE SERVICE
SAFETY PRECAUTIONS.
DO NOT DEGRADE THE SAFETY OF THIS SET
THROUGH IMPROPER SERVICING
MODIFICATIONS RESERVED
Name
FRAME PCD 1640 LZ
Article nr.
76 1408
Date
03/02/88
Drawn
JVH
Checked
RDF
BARCO ELECTRONIC NV
Noordlaan 5
B-8720 KUURNE BELGIUM

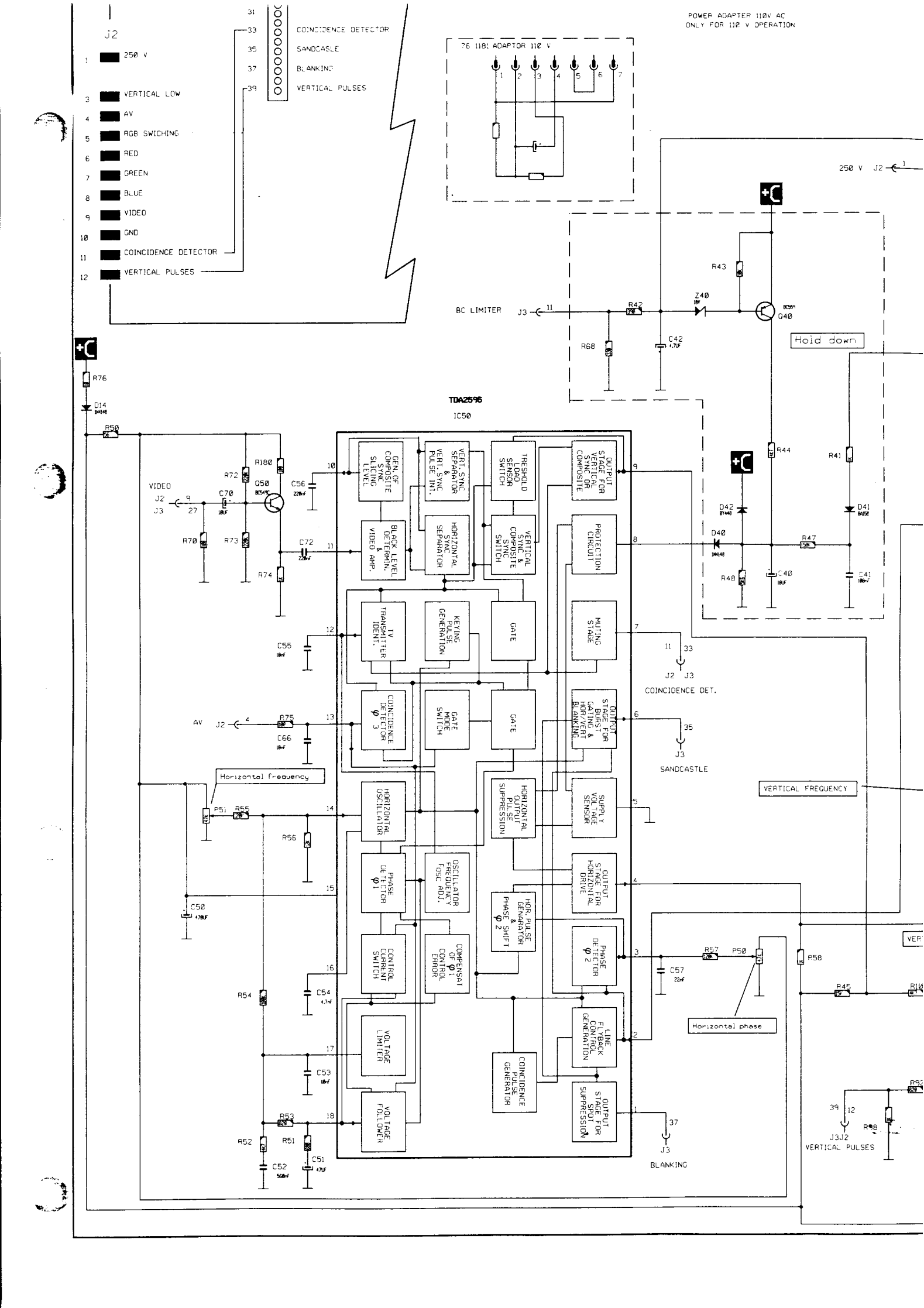

NOTE : for 110 V AC operation remove jumpers 1,2
and 3 and connect the 110 V ADAPTER with the frame.
J1
+210 V
GND
GND 30 V
+30 V
+20 V
+9 V
+20 V
SATURATION
CONTRAST
BRIGHTNESS
HUE
J3 (DECODER)
+210 V
SATURATION
CONTRAST
BRIGHTNESS
HUE
BC LIMITER
+15 V
RGB SWITCHING
RED
GREEN
BLUE
VIDEO
GND
COINCIDENCE DETECTOR
SANDCASLE
BLANKING
VERTICAL PULSES
R173
J2
250 V
VERTICAL LOW
AV
RGB SWICHING
RED
GREEN
BLUE
VIDEO
GND
COINCIDENCE DETECTOR
VERTICAL PULSES
J7
F1
T4A
L4
773309
C21
C20
C22
MAINS INPUT
F2
T4A
Jumper3
Jumper2
Jumper1
R18
J6
C28
TO DEGAUSING
PTC 220V
POWER ADAPTER 110V AC
ONLY FOR 110 V OPERATION
76 1181 ADAPTOR 110 V
250 V J2
R43
BC LIMITER
J3
R42
Z40
Q40
R68
C42
Hold down
R76
D14
R50
TDA2595
IC50
VIDEO
J2
J3
C70
R72
R180
Q50
C56
R70
R73
C72
R74
C55
GEN. OF COMPOSITE SYNC SLICING LEVEL
VERT. SYNC SEPARATOR & VERT. SYNC PULSE INT.
TRESHOLD CLAMP. SENSOR SWITCH
OUTPUT STAGE FOR VERTICAL SYNC OR COMPOSITE
BLACK LEVEL DETERMIN. & VIDEO AMP.
HORIZONTAL SYNC SEPARATOR
VERTICAL SYNC & COMPOSITE SYNC SWITCH
PROTECTION CIRCUIT
TV TRANSMITTER IDENT.
KEYING PULSE GENERATION
GATE
MUTING STAGE
R44
R41
D42
D41
D40
R47
R48
C40
C41
J2 J3
COINCIDENCE DET.

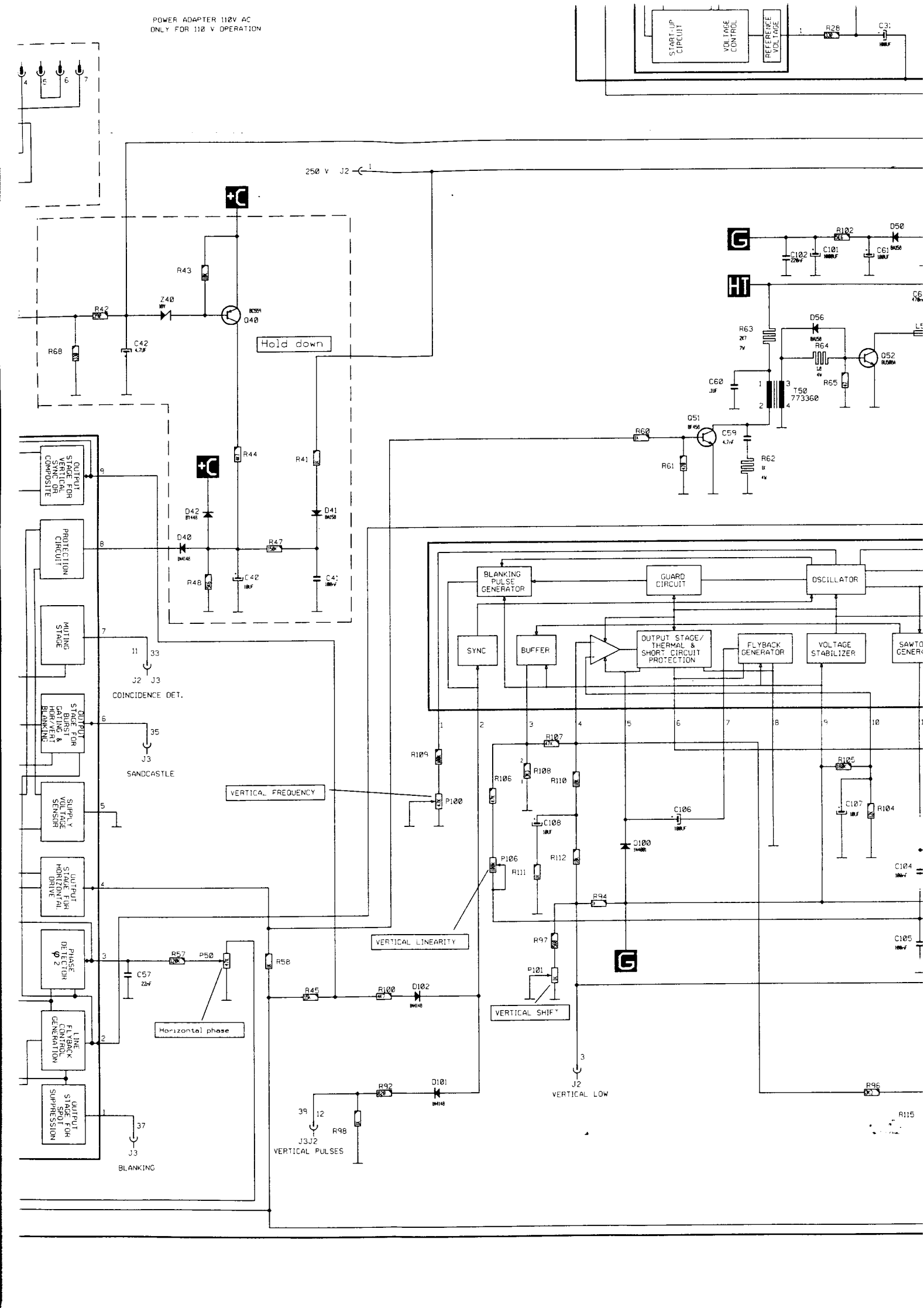
AC operation remove jumpers 1,2
and connect the 110 V ADAPTER with the frame.

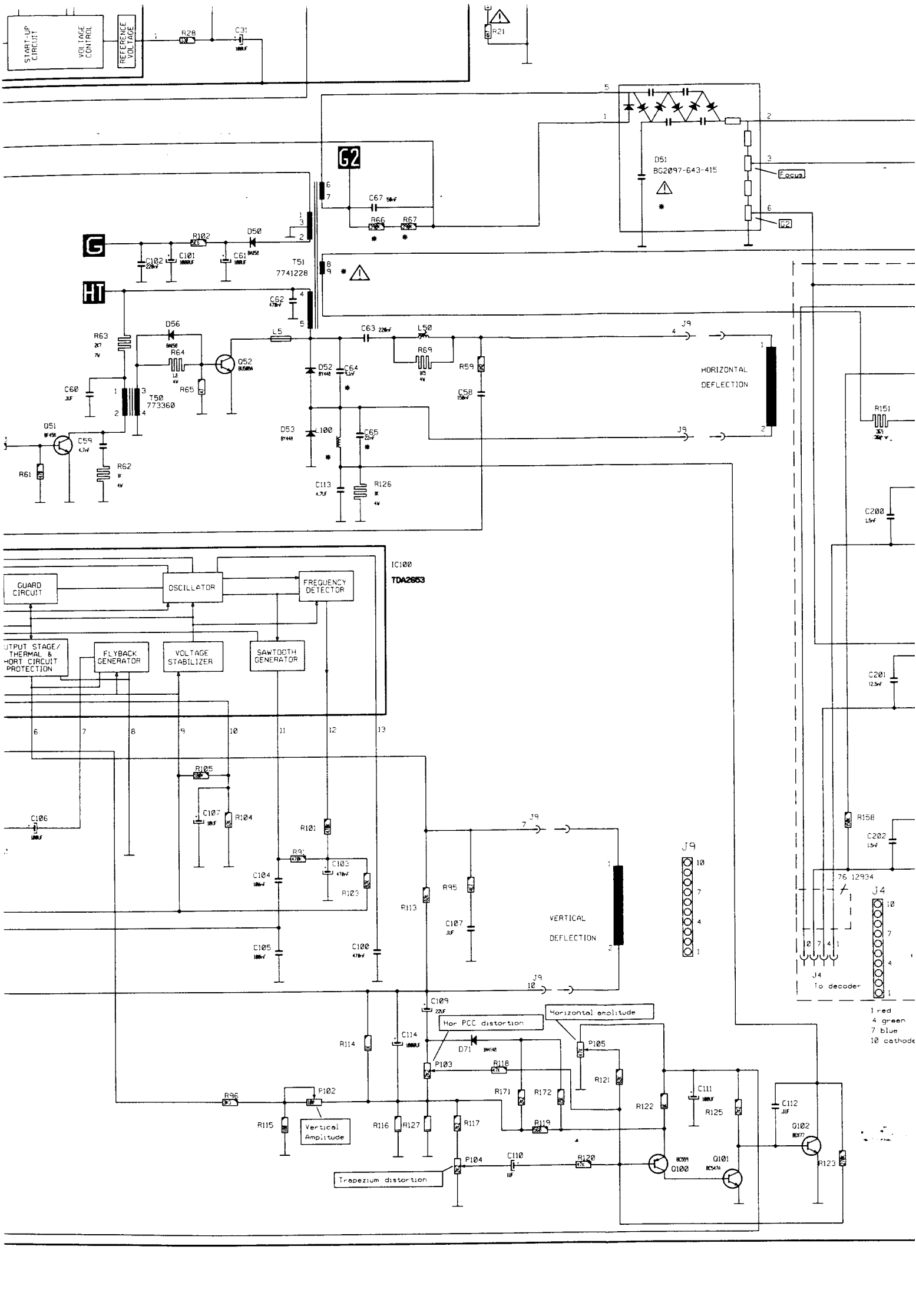


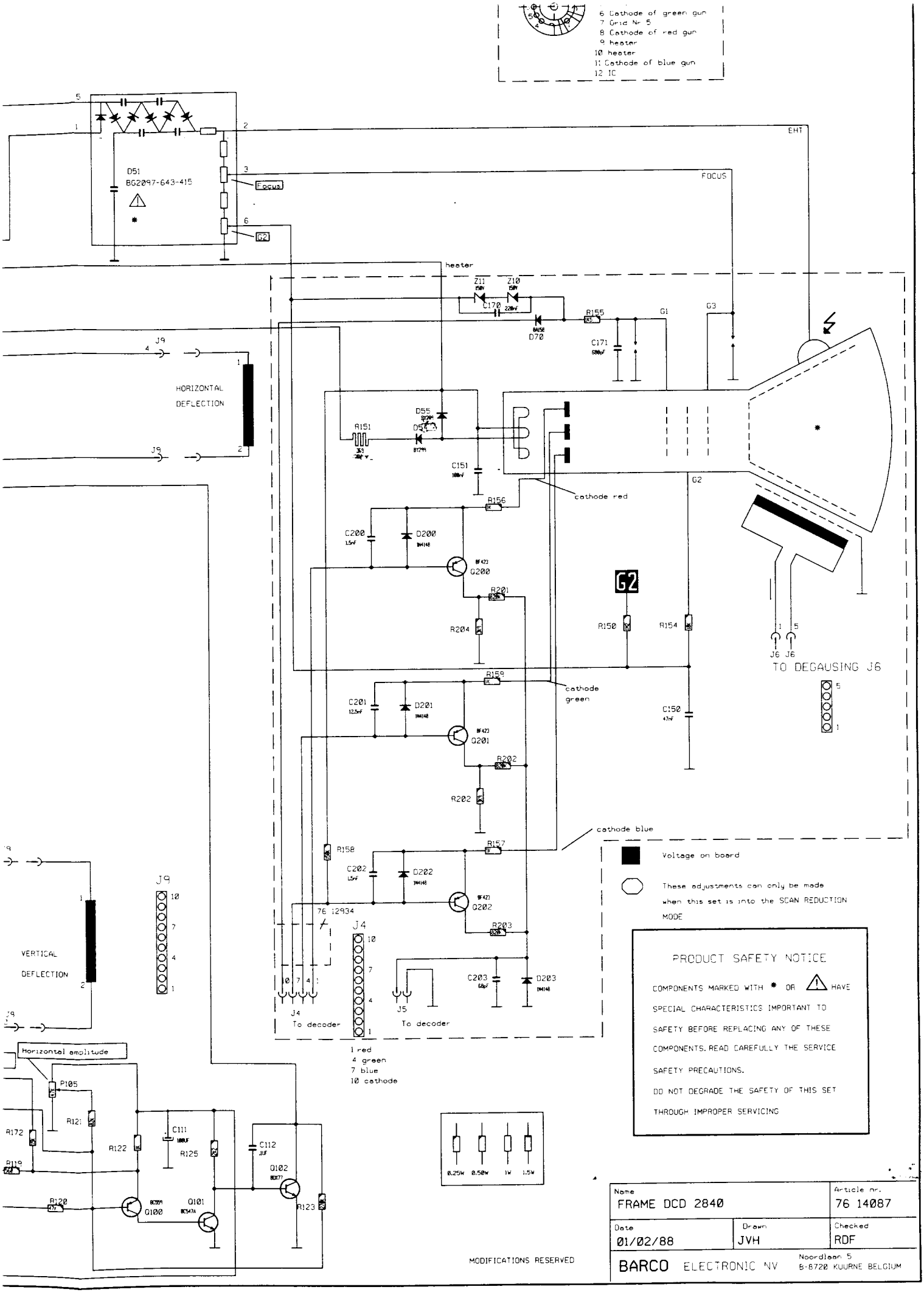

IC2
TDA4851
BASE CURRENT AMPLIFIER
COUPLING-C CHARGING CIRCUIT
BASE CURRENT SHUT-DOWN
EXT BLOCKING ALTERNATIVES
TRIGGER START HOLD
CONTROL LOGIC
COLLECTOR CURRENT SIMULATION
CONTROL AMPLIFIER
STANDBY OPERATION
OVERLOAD IDENTIFICATION
ZERO PASSAGE IDENTIFICATION
START-UP CIRCUIT
VOLTAGE CONTROL
REFERENCE VOLTAGE
T1
7741185
+210 V
+30 V
+20 V
+9 V
F1.25A
G2
G
HT
T51
7741228
T50
773360
D51
BC2097-643-415
Focus
HORIZONTAL DEFLECTION
IC100
TDA2653
GUARD CIRCUIT
OSCILLATOR
FREQUENCY DETECTOR
OUTPUT STAGE/ THERMAL & SHORT CIRCUIT PROTECTION
FLYBACK GENERATOR
VOLTAGE STABILIZER
SAWTOOTH GENERATOR

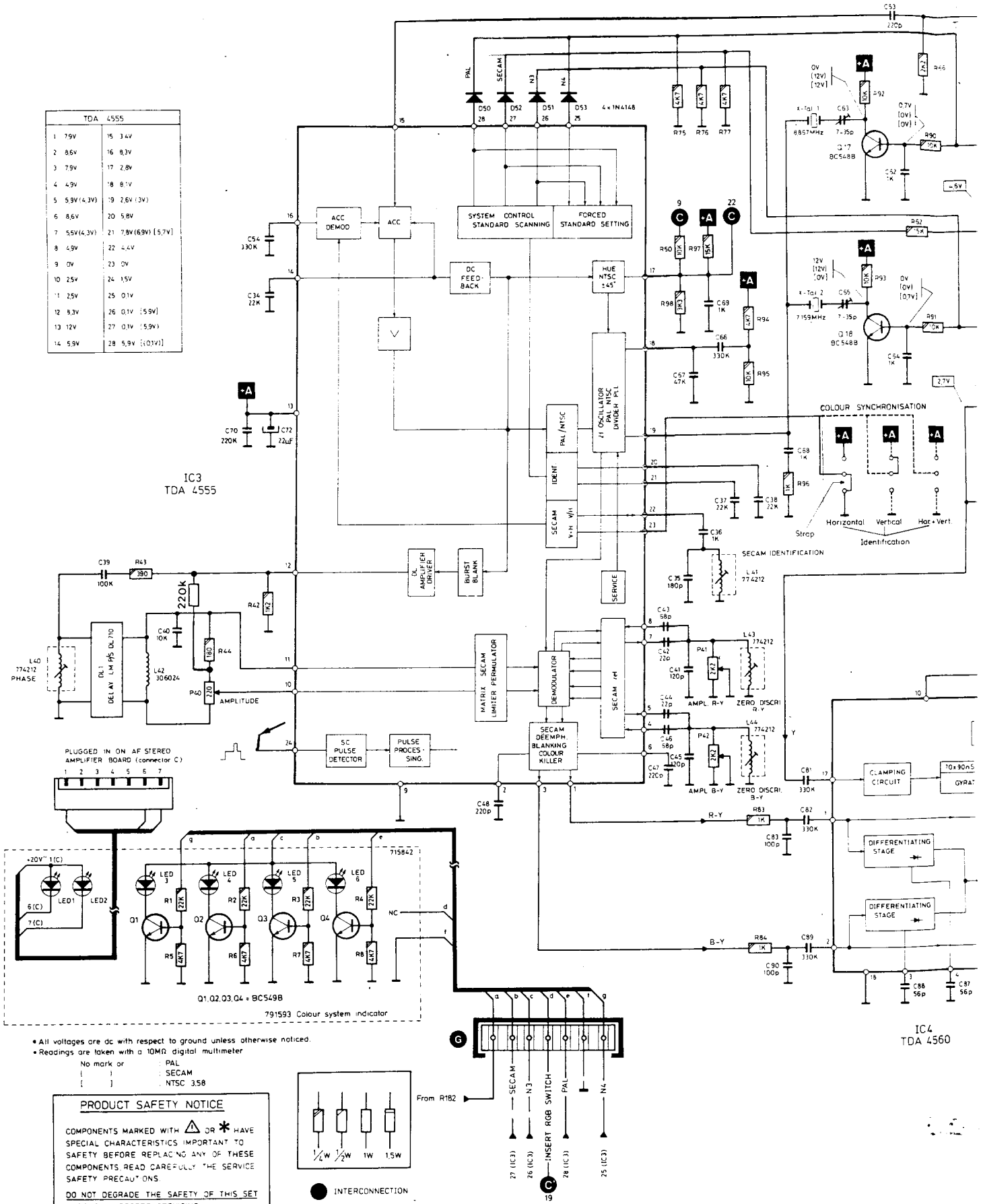

D1
J3
+210 V
J1
C6
R6
+20 V
J1
R2
IC1
IN
GND
OUT
7815
C3
C1
C12
D2
SR3
L1
R1
HT
C8
C7
R4
C2
SR27
D3
J1
+30 V
R25
D4
SR26
+20 V
C4
D5
SR7
+9 V
C5
C30
(BOTTOM VIEW OF BASE)
1 Grid Nr 3
4 IC
5 Grid Nr 1
6 Cathode of green gun
7 Grid Nr 5
8 Cathode of red gun
9 heater
10 heater
11 Cathode of blue gun
12 IC
D51
BG2097-643-415
Focus
G2
EHT
FOCUS
heater
Z11
Z10
C170
D70
R155
G1
G3
C171
J9
HORIZONTAL
DEFLECTION
D55
R151
C151
R156
cathode red
G2
C200
D200
Q200
R201
R204
R150
R154
R159
cathode green
C201
D201
C150
J6
TO DEGAUSING J6


J2
250 V
VERTICAL LOW
AV
RGB SWICHING
RED
GREEN
BLUE
VIDEO
GND
COINCIDENCE DETECTOR
VERTICAL PULSES
COINCIDENCE DETECTOR
SANDCASLE
BLANKING
VERTICAL PULSES
POWER ADAPTER 110V AC
ONLY FOR 110 V OPERATION
76 1181 ADAPTOR 110 V
250 V J2
BC LIMITER J3
R43
R42
Z40
Q40
R68
C42
Hold down
TDA2595
IC50
R76
D14
R50
R180
R72
Q50
C56
VIDEO
J2 J3
C70
R70
R73
R74
C72
GEN. OF COMPOSITE SYNC SLICING LEVEL
VERT. SYNC SEPARATOR & VERT. SYNC PULSE INT.
TRESHOLD LOAD SENSOR SWITCH
OUTPUT STAGE FOR VERTICAL SYNC OR COMPOSITE
BLACK LEVEL DETERMIN. & VIDEO AMP.
HORIZONTAL SYNC SEPARATOR
VERTICAL SYNC & COMPOSITE SYNC SWITCH
PROTECTION CIRCUIT
TV TRANSMITTER IDENT.
KEYING PULSE GENERATION
GATE
MUTING STAGE
C55
COINCIDENCE DETECTOR φ 3
GATE MODE SWITCH
GATE
OUTPUT STAGE FOR BURST GATING & HOR/VERT BLANKING
AV J2
R75
C66
Horizontal frequency
P51
R55
R56
HORIZONTAL OSCILLATOR
HORIZONTAL OUTPUT PULSE SUPPRESSION
SUPPLY VOLTAGE SENSOR
C52
PHASE DETECTOR φ 1
OSCILLATOR FREQUENCY FOSC ADJ.
OUTPUT STAGE FOR HORIZONTAL DRIVE
CONTROL CURRENT SWITCH
COMPENSAT OF φ CONTROL ERROR
HOR. PULSE GENARATOR & PHASE SHIFT φ 2
PHASE DETECTOR φ 2
R54
C54
VOLTAGE LIMITER
LINE FLYBACK CONTROL GENERATION
C53
COINCIDENCE PULSE GENERATOR
OUTPUT STAGE FOR SPOT SUPPRESSION
R53
R52
R51
C52
C51
VOLTAGE FOLLOWER
R57
P50
C57
Horizontal phase
R58
R45
R41
D42
D41
D40
R47
R48
C40
C41
J2 J3
COINCIDENCE DET.
J3
SANDCASTLE
VERTICAL FREQUENCY
J3
BLANKING
J3J2
VERTICAL PULSES


POWER ADAPTER 110V AC
ONLY FOR 110 V OPERATION
START-UP CIRCUIT
VOLTAGE CONTROL
REFERENCE VOLTAGE
250 V J2
Hold down
OUTPUT STAGE FOR VERTICAL SYNC OR COMPOSITE
PROTECTION CIRCUIT
MUTING STAGE
OUTPUT STAGE FOR BURST & HOR/VERT BLANKING
SUPPLY VOLTAGE SENSOR
OUTPUT STAGE FOR HORIZONTAL DRIVE
PHASE DETECTION φ 2
LINE FLYBACK CONTROL GENERATION
OUTPUT STAGE FOR SPOT SUPPRESSION
COINCIDENCE DET.
SANDCASTLE
BLANKING
VERTICAL FREQUENCY
Horizontal phase
VERTICAL LINEARITY
VERTICAL SHIFT
VERTICAL PULSES
VERTICAL LOW
BLANKING PULSE GENERATOR
GUARD CIRCUIT
OSCILLATOR
SYNC
BUFFER
OUTPUT STAGE/ THERMAL & SHORT CIRCUIT PROTECTION
FLYBACK GENERATOR
VOLTAGE STABILIZER
T50 773360


START-UP CIRCUIT
VOLTAGE CONTROL
REFERENCE VOLTAGE
R28
C31
R21
G2
C67
R66
R67
D51
BG2097-643-415
Focus
G2
G
HT
R102
D50
C102
C101
C61
T51
7741228
C62
D56
R63
L5
C63
L50
R64
Q52
R69
R59
C58
D52
C64
HORIZONTAL DEFLECTION
J9
C60
T50
773360
R65
D53
L100
C65
R151
D51
C59
R61
R62
C113
R126
C200
IC100
TDA2653
GUARD CIRCUIT
OSCILLATOR
FREQUENCY DETECTOR
OUTPUT STAGE/ THERMAL & SHORT CIRCUIT PROTECTION
FLYBACK GENERATOR
VOLTAGE STABILIZER
SAWTOOTH GENERATOR
C201
R105
C107
R104
C106
R101
R99
C103
C104
R103
R113
R95
C107
VERTICAL DEFLECTION
C105
C100
R158
C202
76 12934
J4
J4 To decoder
1 red
4 green
7 blue
10 cathode
C109
Hor PCC distortion
Horizontal amplitude
R114
C114
D71
P105
P103
R118
R121
R96
P102
R171
R172
R122
C111
R125
C112
R115
Vertical Amplitude
R116
R127
R117
R119
Q102
P104
C110
R120
Q100
Q101
R123
Trapezium distortion


6 Cathode of green gun
7 Grid Nr 5
8 Cathode of red gun
9 heater
10 heater
11 Cathode of blue gun
12 IC
EHT
FOCUS
D51
BG2097-643-415
Focus
G2
heater
Z11
Z10
C170
R155
G1
G3
D70
C171
J9
HORIZONTAL
DEFLECTION
D55
D54
R151
C151
R156
cathode red
C200
D200
G200
R201
R204
R150
R154
J6
J6
TO DEGAUSING J6
R159
cathode
green
C201
D201
Q201
R202
C150
R202
cathode blue
R158
R157
C202
D202
Q202
R203
76 12934
J4
J9
VERTICAL
DEFLECTION
J4
To decoder
J5
To decoder
C203
D203
1 red
4 green
7 blue
10 cathode
Horizontal amplitude
P105
R121
R172
R122
C111
R125
C112
Q102
R119
R120
Q100
Q101
R123
0.25W
0.50W
1W
1.5W
Voltage on board
These adjustments can only be made when this set is into the SCAN REDUCTION MODE
PRODUCT SAFETY NOTICE
COMPONENTS MARKED WITH * OR ⚠ HAVE SPECIAL CHARACTERISTICS IMPORTANT TO SAFETY BEFORE REPLACING ANY OF THESE COMPONENTS. READ CAREFULLY THE SERVICE SAFETY PRECAUTIONS.
DO NOT DEGRADE THE SAFETY OF THIS SET THROUGH IMPROPER SERVICING
MODIFICATIONS RESERVED
Name
FRAME DCD 2840
Article nr.
76 14087
Date
01/02/88
Drawn
JVH
Checked
RDF
BARCO ELECTRONIC NV
Noordlaan 5
B-8720 KUURNE BELGIUM



TDA 4555			
1	7.9V	15	3.4V
2	8.6V	16	8.3V
3	7.9V	17	2.8V
4	4.9V	18	8.1V
5	5.9V (4.3V)	19	2.6V (3V)
6	8.6V	20	5.8V
7	5.6V (4.3V)	21	7.8V (6.9V) [5.7V]
8	4.9V	22	4.4V
9	0V	23	0V
10	2.5V	24	1.5V
11	2.5V	25	0.1V
12	8.3V	26	0.1V [5.9V]
13	12V	27	0.1V [5.9V]
14	5.9V	28	5.9V [(0.1V)]

- All voltages are dc with respect to ground unless otherwise noticed.
- Readings are taken with a 10MΩ digital multimeter

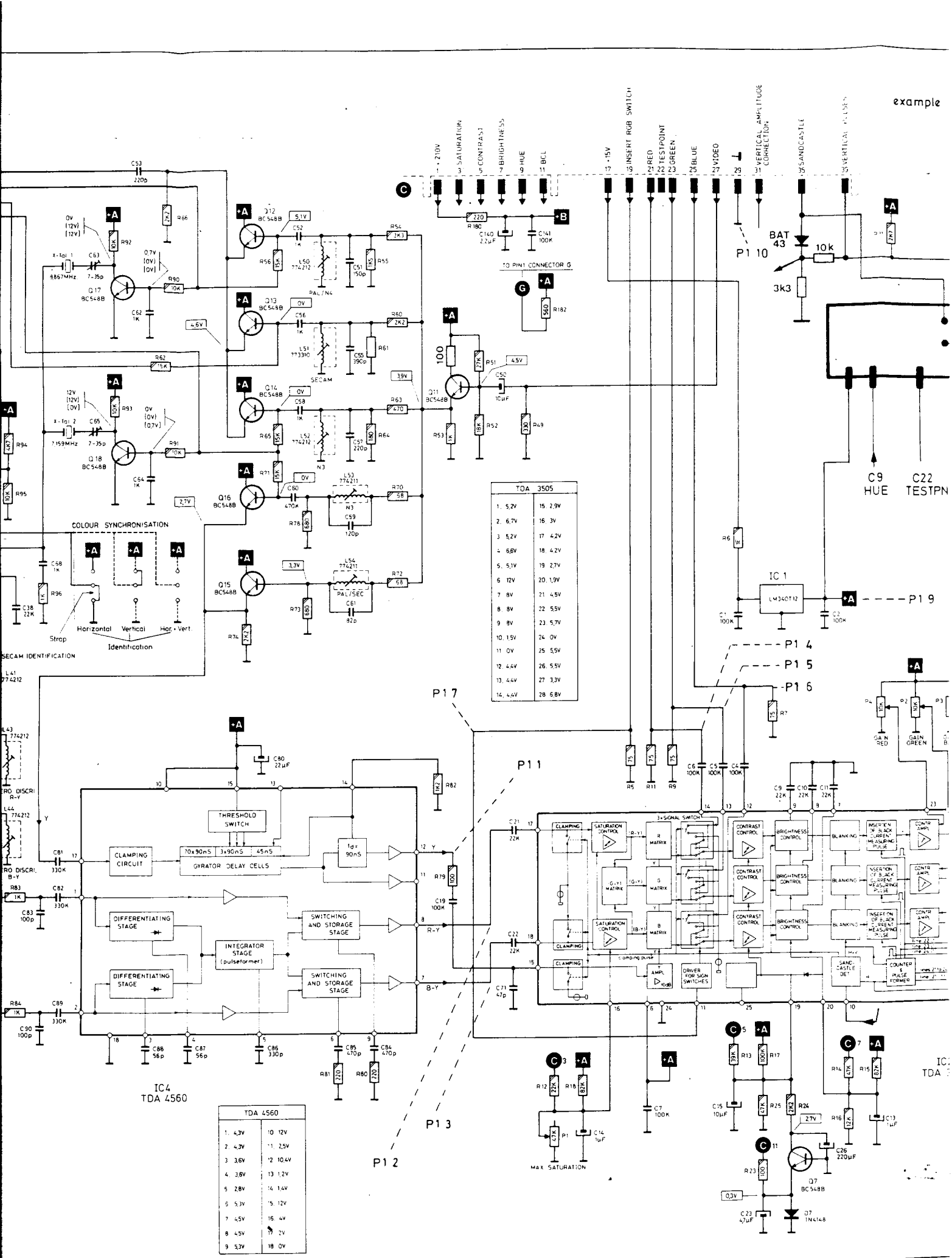
No mark or	: PAL
( )	: SECAM
[ ]	: NTSC 3.58

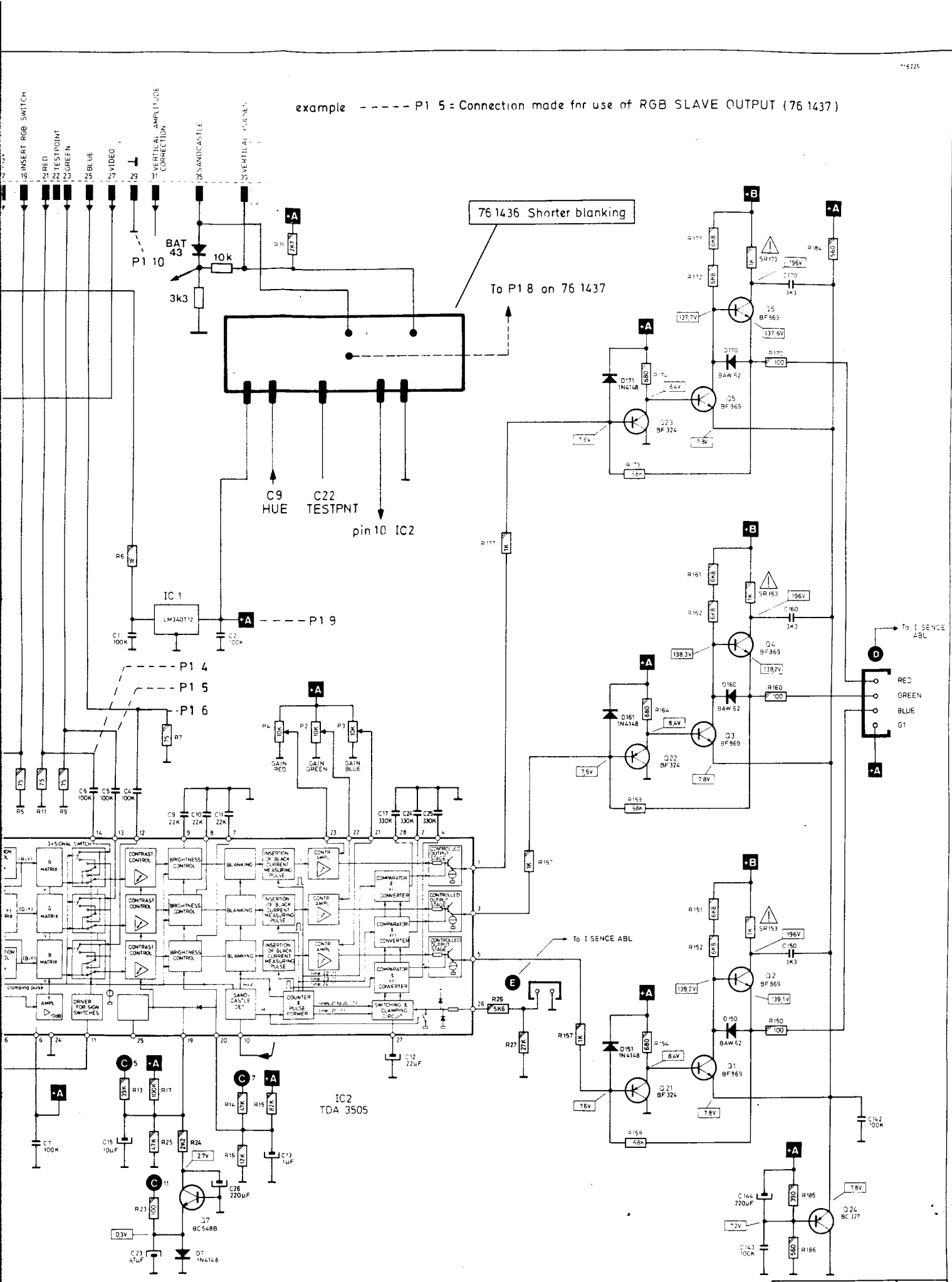
PRODUCT SAFETY NOTICE

COMPONENTS MARKED WITH ⚠ OR * HAVE SPECIAL CHARACTERISTICS IMPORTANT TO SAFETY. BEFORE REPLACING ANY OF THESE COMPONENTS, READ CAREFULLY THE SERVICE SAFETY PRECAUTIONS.

DO NOT DEGRADE THE SAFETY OF THIS SET THROUGH IMPROPER SERVICING.

| | | |

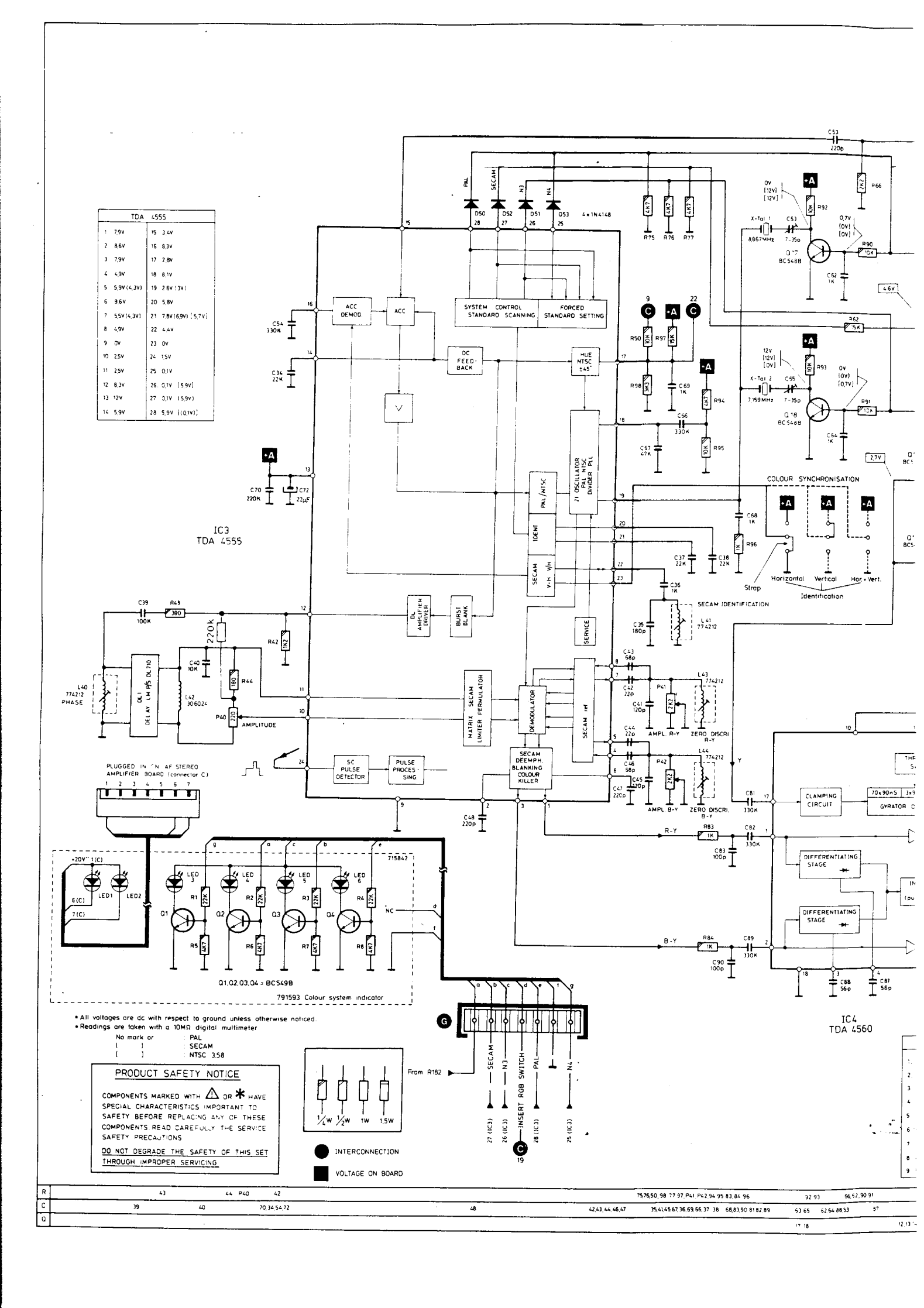

example
1 + 210V
3 SATURATION
5 CONTRAST
7 BRIGHTNESS
9 HUE
11 BCL
17 +15V
19 INSERT RGB SWITCH
21 RED
22 TESTPOINT
23 GREEN
25 BLUE
27 VIDEO
29
31 VERTICAL AMPLITUDE CORRECTION
35 SANDCASTLE
37 VERTICAL PULSES
TO PIN1 CONNECTOR G
P1 10
BAT 43
10k
3k3
C9 HUE
C22 TESTPN
IC 1
LM340T12
P1 9
P1 4
P1 5
P1 6
P1 7
P1 1
P1 3
P1 2
COLOUR SYNCHRONISATION
Strap
Horizontal
Vertical
Hor.+Vert.
Identification
SECAM IDENTIFICATION
TDA 3505
1. 5,2V
2. 6,7V
3. 5,2V
4. 6,6V
5. 5,1V
6. 12V
7. 8V
8. 8V
9. 8V
10. 1,5V
11. 0V
12. 4,4V
13. 4,4V
14. 4,4V
15. 2,9V
16. 3V
17. 4,2V
18. 4,2V
19. 2,7V
20. 1,9V
21. 4,5V
22. 5,5V
23. 5,7V
24. 0V
25. 5,5V
26. 5,5V
27. 3,3V
28. 6,8V
IC4
TDA 4560
THRESHOLD SWITCH
CLAMPING CIRCUIT
70x90nS
3x90nS
45nS
GYRATOR DELAY CELLS
1/x 90nS
DIFFERENTIATING STAGE
DIFFERENTIATING STAGE
INTEGRATOR STAGE (pulseformer)
SWITCHING AND STORAGE STAGE
SWITCHING AND STORAGE STAGE
R-Y
B-Y
3-SIGNAL SWITCH
CLAMPING
SATURATION CONTROL
CONTRAST CONTROL
BRIGHTNESS CONTROL
BLANKING
R MATRIX
G MATRIX
B MATRIX
G-Y MATRIX
Y AMPL
DRIVER FOR SIGN SWITCHES
SAND CASTLE DET
COUNTER & PULSE FORMER
max SATURATION
TDA 4560
1. 4,3V
2. 4,3V
3. 3,6V
4. 3,6V
5. 2,8V
6. 5,3V
7. 4,5V
8. 4,5V
9. 5,3V
10. 12V
11. 2,5V
12. 10,4V
13. 1,2V
14. 1,4V
15. 12V
16. 4V
17. 2V
18. 0V

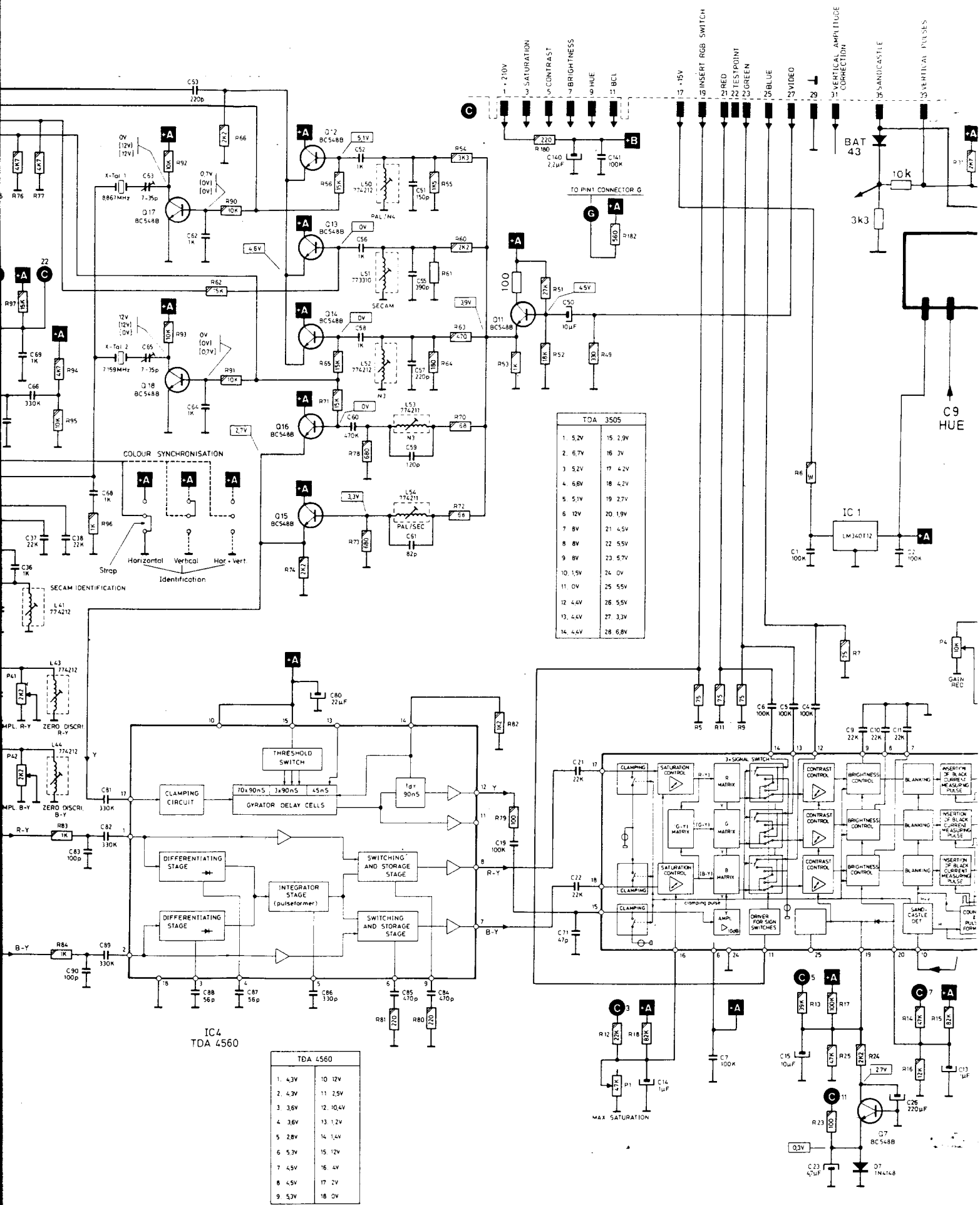


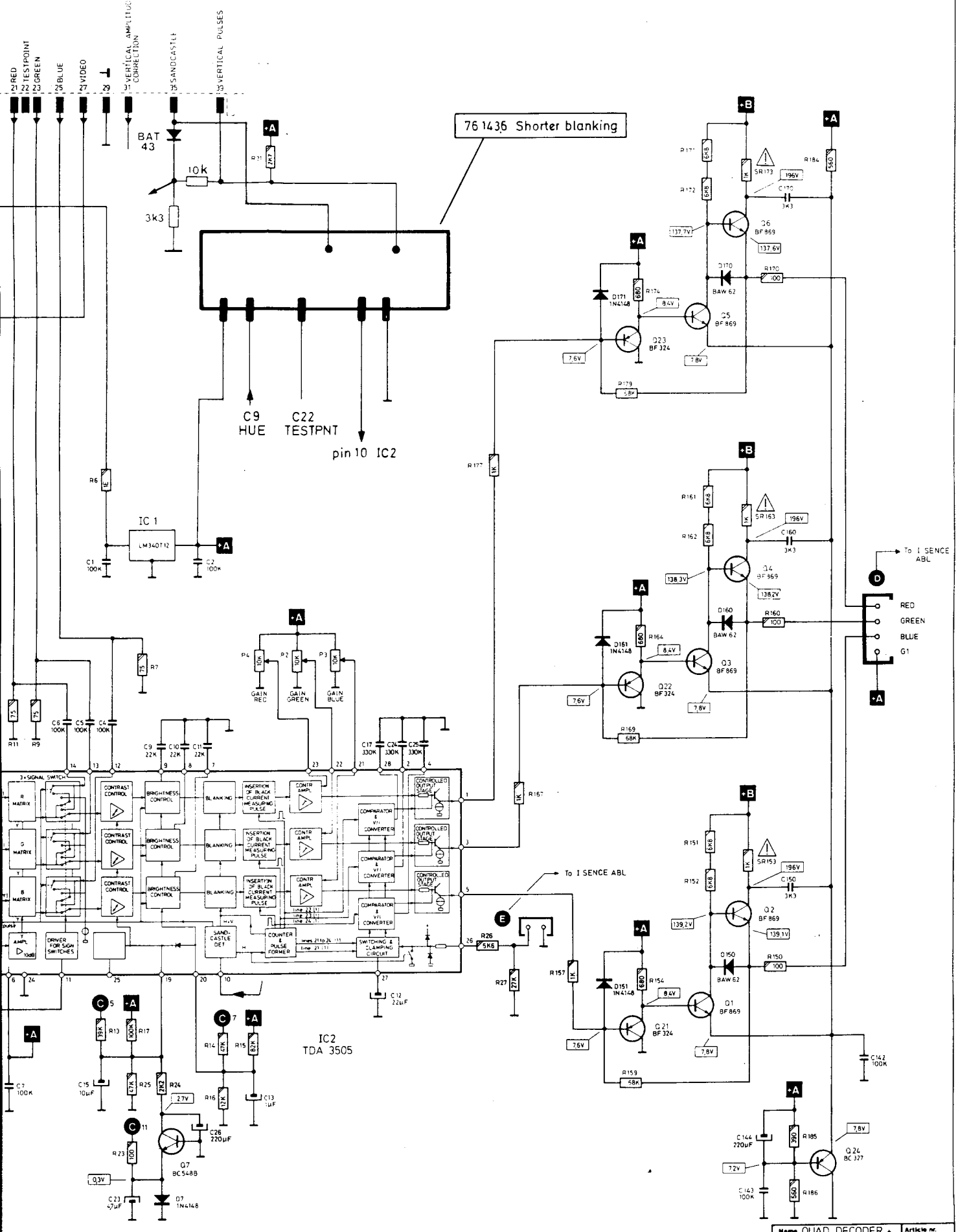
MODIFICATIONS RESERVED

Name	Article nr.
QUAD DECODER + RGB AMPLIFIER	76 14558
Date 17/11/87	Drawn PG	Checked RDF

BARCO Electronic Noordlaan 5 8720 Kuurne Belgium


TDA 4555
IC3
TDA 4555
IC4
TDA 4560
COLOUR SYNCHRONISATION
Strap
Horizontal
Vertical
Hor. + Vert.
Identification
SECAM IDENTIFICATION
PLUGGED IN ON AF STEREO AMPLIFIER BOARD (connector C)
AMPLITUDE
PHASE
Q1,Q2,Q3,Q4 = BC549B
791593 Colour system indicator
INSERT RGB SWITCH
INTERCONNECTION
VOLTAGE ON BOARD
From R182
PRODUCT SAFETY NOTICE
COMPONENTS MARKED WITH ⚠ OR * HAVE SPECIAL CHARACTERISTICS IMPORTANT TO SAFETY BEFORE REPLACING ANY OF THESE COMPONENTS READ CAREFULLY THE SERVICE SAFETY PRECAUTIONS
DO NOT DEGRADE THE SAFETY OF THIS SET THROUGH IMPROPER SERVICING
All voltages are dc with respect to ground unless otherwise noticed.
Readings are taken with a 10MΩ digital multimeter
No mark or ( ) : PAL
[ ] : SECAM
{ } : NTSC 3.58

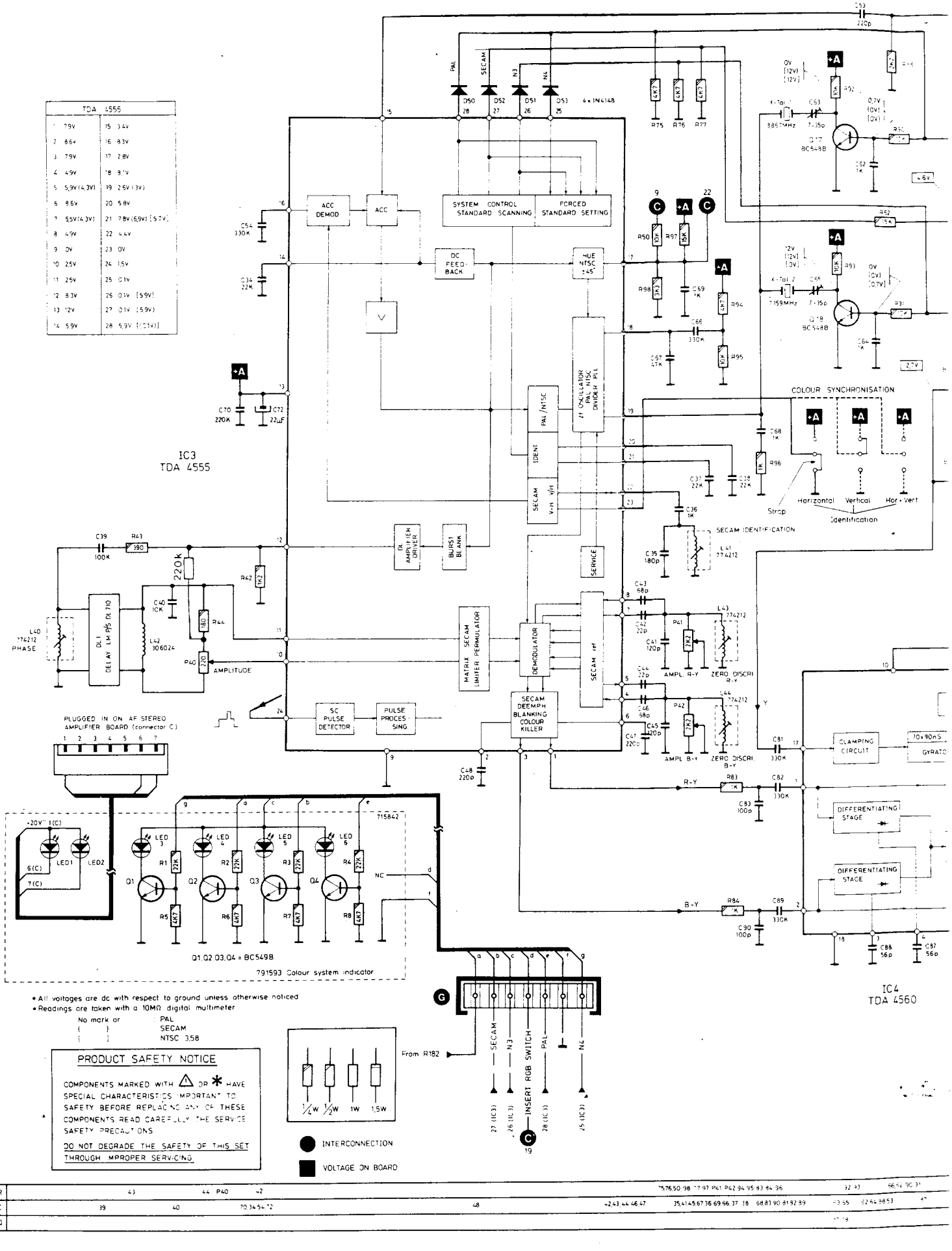

1 +210V
3 SATURATION
5 CONTRAST
7 BRIGHTNESS
9 HUE
11 BCL
17 +15V
19 INSERT RGB SWITCH
21 RED
22 TESTPOINT
23 GREEN
25 BLUE
27 VIDEO
29
31 VERTICAL AMPLITUDE CORRECTION
35 SANDCASTLE
39 VERTICAL PULSES
TO PIN1 CONNECTOR G
BAT 43
10k
3k3
C9 HUE
IC 1
LM340T12
COLOUR SYNCHRONISATION
Strap
Horizontal
Vertical
Hor + Vert.
Identification
SECAM IDENTIFICATION
PAL/NTSC
SECAM
PAL/SEC
THRESHOLD SWITCH
CLAMPING CIRCUIT
GYRATOR DELAY CELLS
70ns 130ns 45ns
90ns
DIFFERENTIATING STAGE
DIFFERENTIATING STAGE
INTEGRATOR STAGE (pulseformer)
SWITCHING AND STORAGE STAGE
SWITCHING AND STORAGE STAGE
3-SIGNAL SWITCH
CLAMPING
SATURATION CONTROL
CONTRAST CONTROL
BRIGHTNESS CONTROL
BLANKING
INSERTION OF BLACK CURRENT MEASURING PULSE
R MATRIX
G MATRIX
B MATRIX
DRIVER FOR SIGN SWITCHES
SAND-CASTLE DET
MAX SATURATION
IC4
TDA 4560
TDA 3505
1. 5,2V
2. 6,7V
3. 5,2V
4. 6,6V
5. 5,1V
6. 12V
7. 8V
8. 8V
9. 8V
10. 1,5V
11. 0V
12. 4,4V
13. 4,4V
14. 4,4V
15. 2,9V
16. 3V
17. 4,2V
18. 4,2V
19. 2,7V
20. 1,9V
21. 4,5V
22. 5,5V
23. 5,7V
24. 0V
25. 5,5V
26. 5,5V
27. 3,3V
28. 6,8V
TDA 4560
1. 4,3V
2. 4,3V
3. 3,6V
4. 3,6V
5. 2,8V
6. 5,3V
7. 4,5V
8. 4,5V
9. 5,3V
10. 12V
11. 2,5V
12. 10,4V
13. 1,2V
14. 1,4V
15. 12V
16. 4V
17. 2V
18. 0V



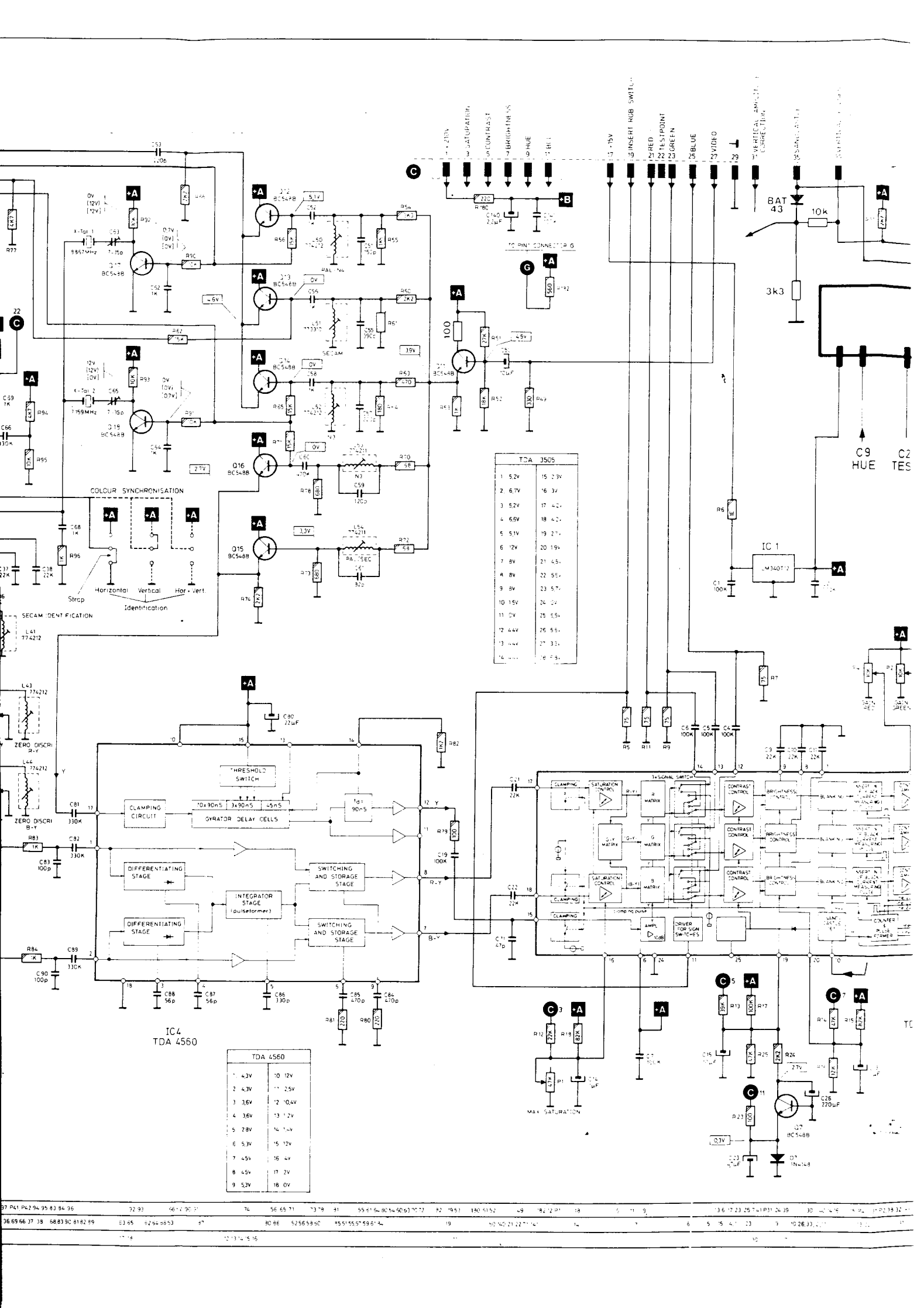
MODIFICATIONS RESERVED

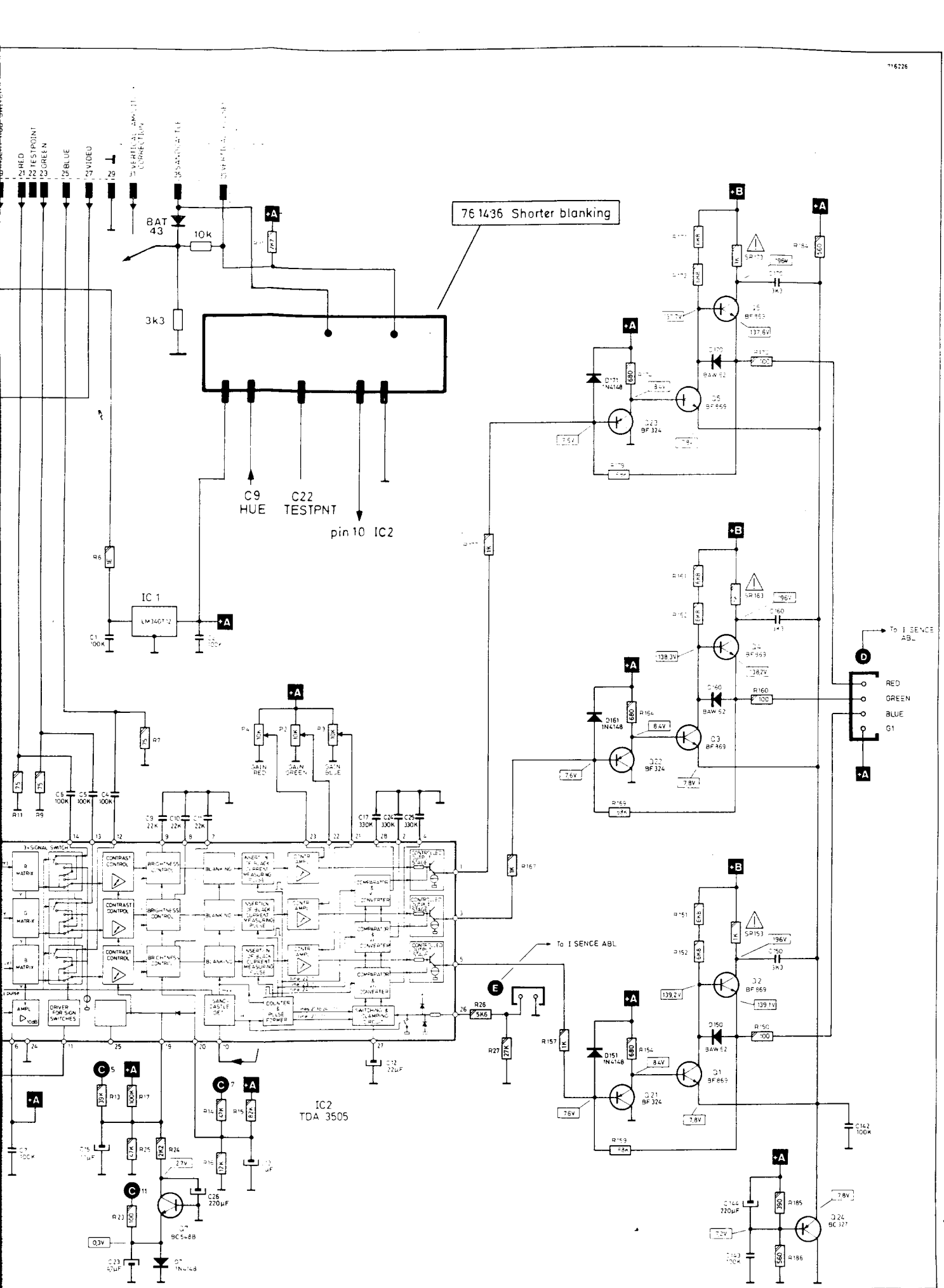
Name	Article nr.
QUAD DECODER + RGB AMPLIFIER	76 14557
Date 17/11/87	Drawn PG	Checked RDF

BARCO Electronic


TDA 4555
IC3
TDA 4555
IC4
TDA 4560
ACC DEMOD
ACC
SYSTEM CONTROL STANDARD SCANNING
FORCED STANDARD SETTING
DC FEED-BACK
HUE NTSC ±45°
PAL/NTSC
IDENT
SECAM V-H
PAL AMPLIFIER DRIVER
BURST BLANK
SERVICE
MATRIX SECAM LIMITER PERMULATOR
DEMODULATOR
SECAM ref
SECAM DEEMPH BLANKING COLOUR KILLER
SC PULSE DETECTOR
PULSE PROCESSING
DL1 DELAY LINE PS DL 710
COLOUR SYNCHRONISATION
Strap
Horizontal
Vertical
Hor + Vert
Identification
SECAM IDENTIFICATION
AMPLITUDE
PHASE
AMPL. R-Y
ZERO DISCRI. R-Y
AMPL. B-Y
ZERO DISCRI. B-Y
CLAMPING CIRCUIT
DIFFERENTIATING STAGE
DIFFERENTIATING STAGE
PLUGGED IN ON AF STEREO AMPLIFIER BOARD (connector C)
Q1,Q2,Q3,Q4 = BC548
791593 Colour system indicator
INSERT RGB SWITCH
From R182
INTERCONNECTION
VOLTAGE ON BOARD
PRODUCT SAFETY NOTICE
COMPONENTS MARKED WITH ⚠ OR * HAVE SPECIAL CHARACTERISTICS IMPORTANT TO SAFETY BEFORE REPLACING ANY OF THESE COMPONENTS READ CAREFULLY THE SERVICE SAFETY PRECAUTIONS
DO NOT DEGRADE THE SAFETY OF THIS SET THROUGH IMPROPER SERVICING
• All voltages are dc with respect to ground unless otherwise noticed
• Readings are taken with a 10MΩ digital multimeter
No mark or ( ) : PAL
( ) : SECAM
[ ] : NTSC 3.58

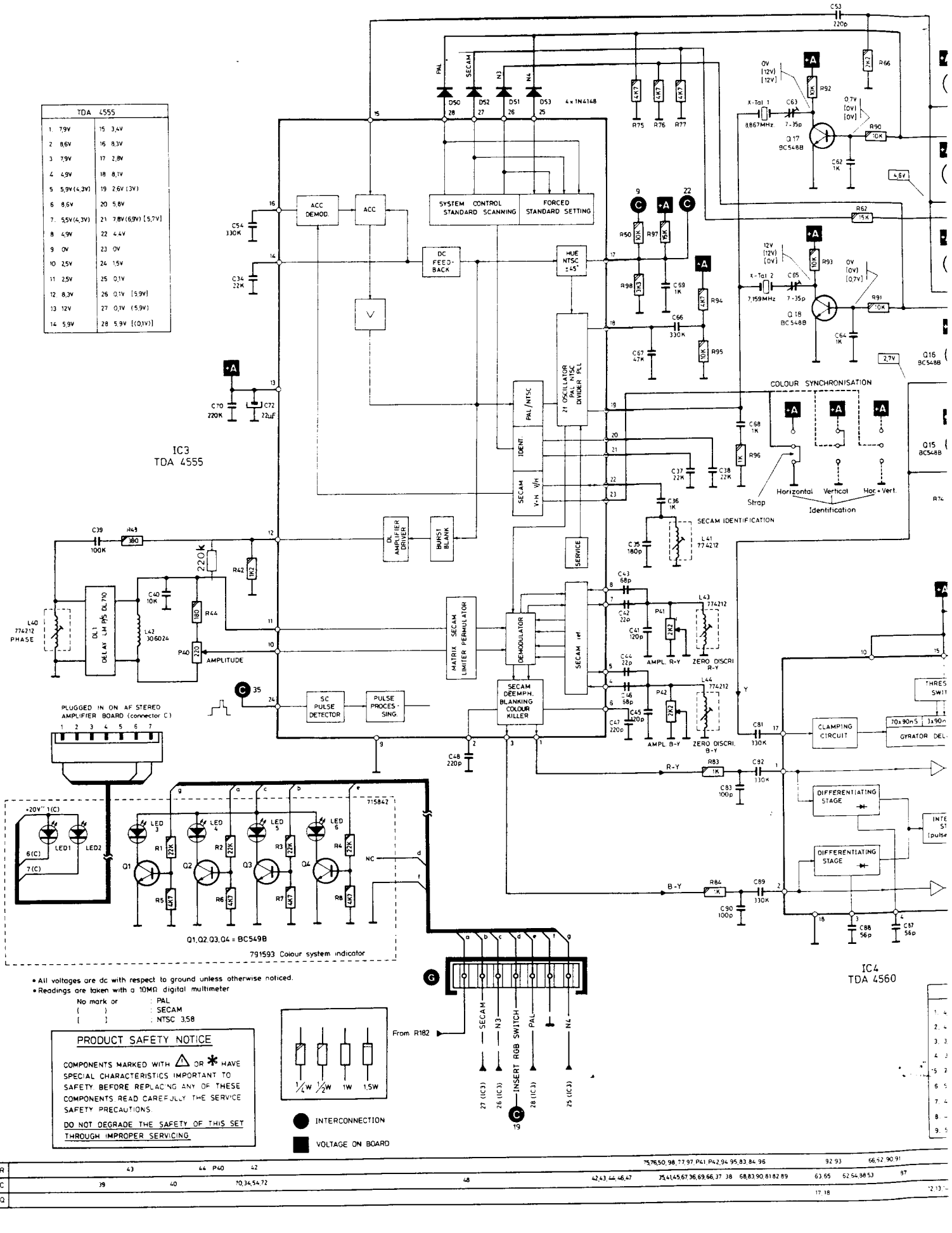
| | | |


COLOUR SYNCHRONISATION
Strap
Horizontal
Vertical
Hor + Vert.
Identification
SECAM IDENTIFICATION
THRESHOLD SWITCH
CLAMPING CIRCUIT
GYRATOR DELAY CELLS
DIFFERENTIATING STAGE
DIFFERENTIATING STAGE
INTEGRATOR STAGE (Duisterhof)
SWITCHING AND STORAGE STAGE
SWITCHING AND STORAGE STAGE
IC4
TDA 4560
TDA 4560
TDA 3505
IC 1
TO PRINT CONNECTOR G
MAX. SATURATION
C9 HUE
C2 TES

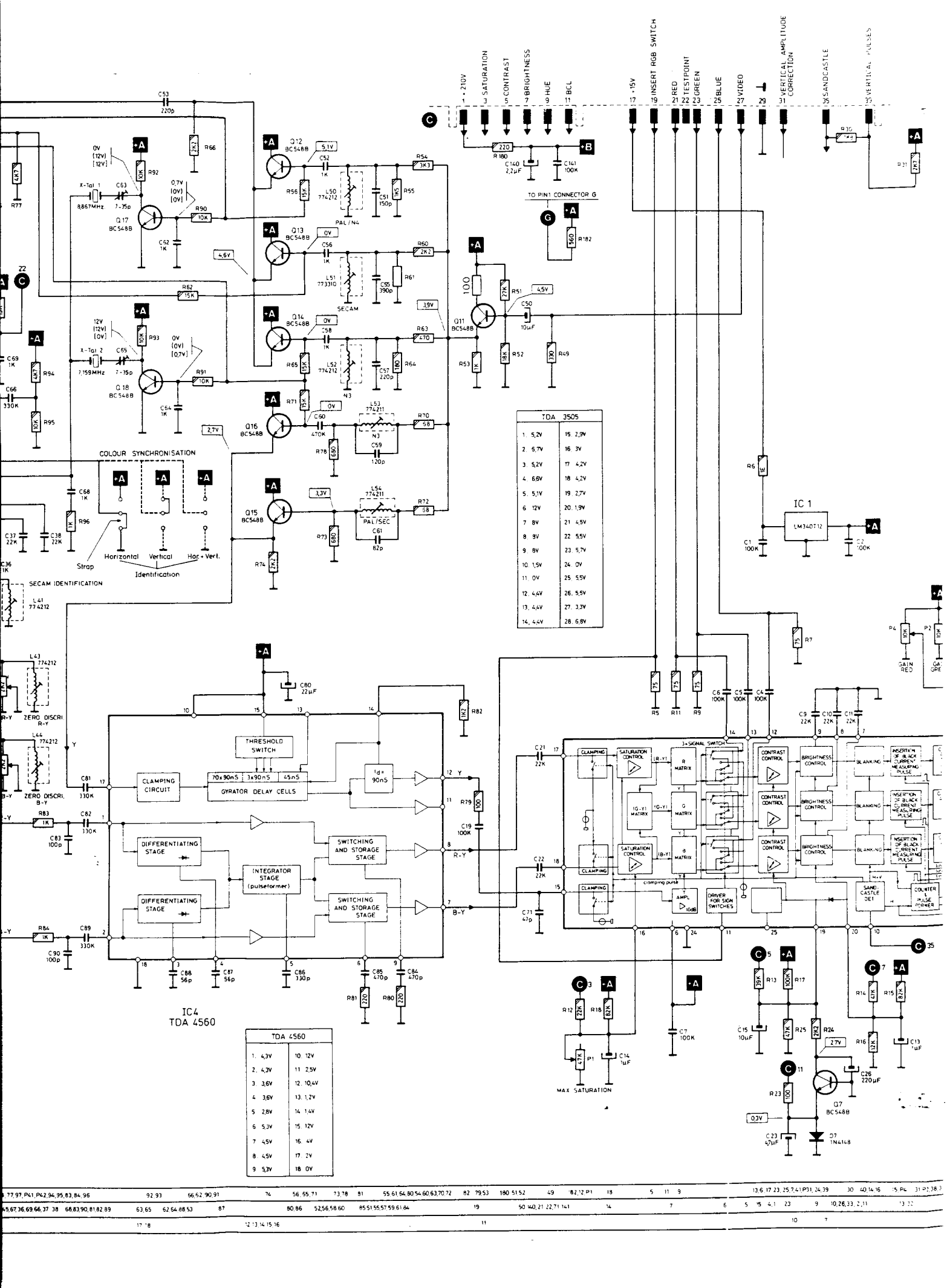


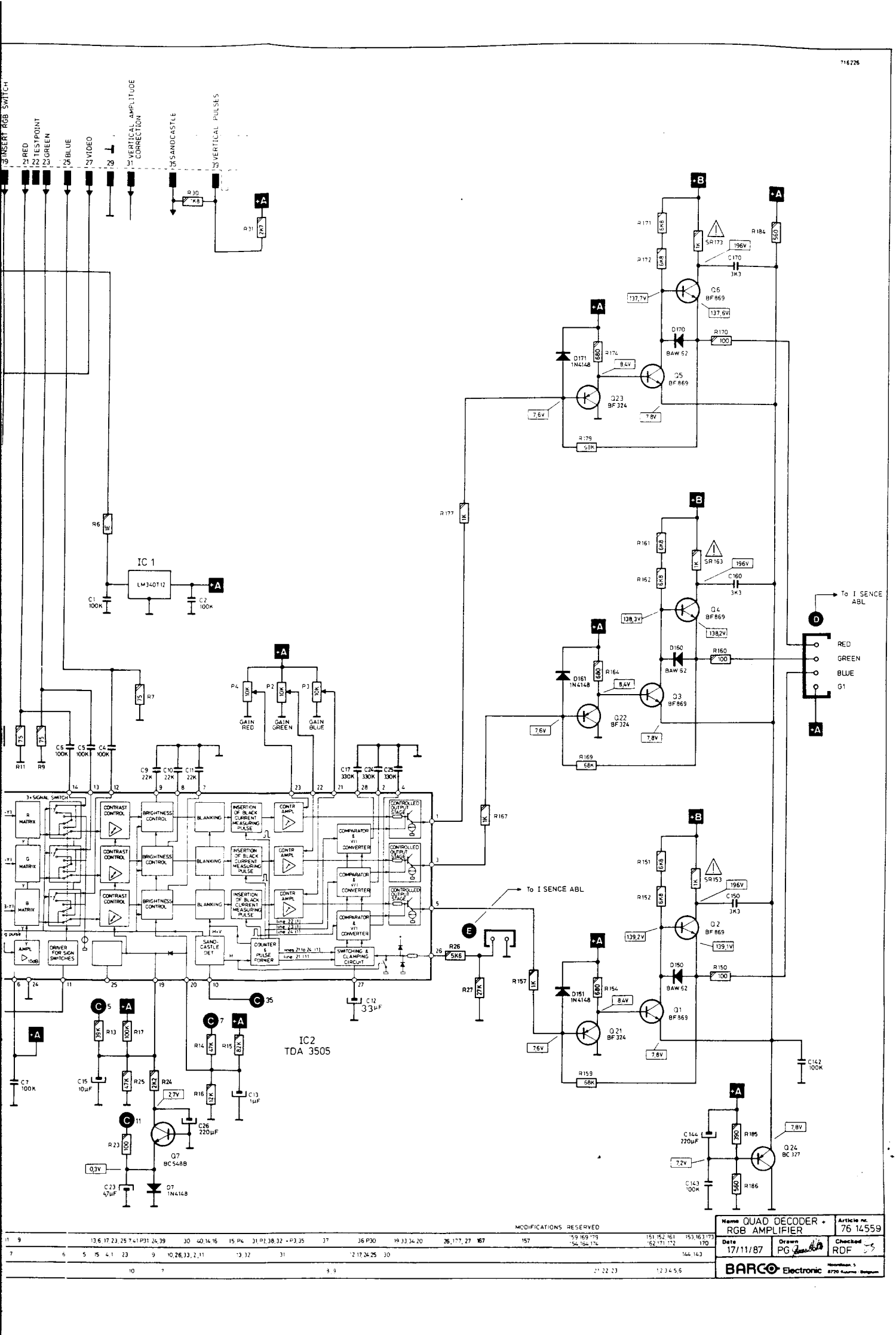
Name	QUAD DECODER + RGB AMPLIFIER
Article nr.	76 14556
Date	17/11/87
Drawn	PG
Checked	RDF

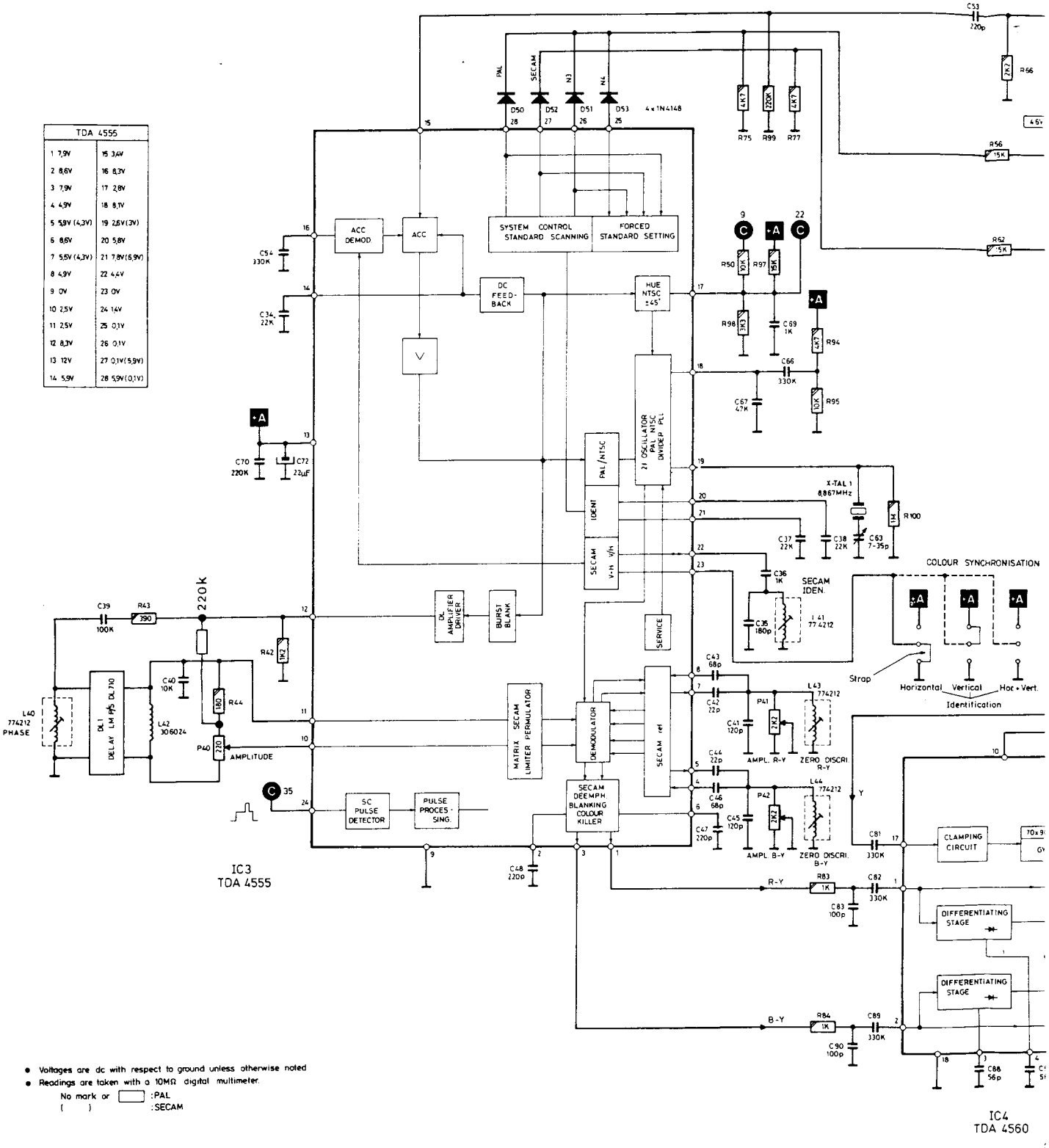
BARCO Electronic


TDA 4555
1 7,9V
2 8,6V
3 7,9V
4 4,9V
5 5,9V (4,3V)
6 8,6V
7 5,5V (4,3V)
8 4,9V
9 0V
10 2,5V
11 2,5V
12 8,3V
13 12V
14 5,9V
15 3,4V
16 8,3V
17 2,8V
18 8,1V
19 2,6V (3V)
20 5,8V
21 7,8V (6,9V) [5,7V]
22 4,4V
23 0V
24 1,5V
25 0,1V
26 0,1V [5,9V]
27 0,1V (5,9V)
28 5,9V [(0,1V)]
IC3
TDA 4555
IC4
TDA 4560
ACC DEMOD.
ACC
SYSTEM CONTROL STANDARD SCANNING
FORCED STANDARD SETTING
DC FEED-BACK
HUE NTSC ±45°
21 OSCILLATOR PAL NTSC DIVIDER PLL
PAL/NTSC
IDENT.
SECAM V/H
DL AMPLIFIER DRIVER
BLANKING
SERVICE
MATRIX SECAM LIMITER PERMUTATOR
DEMODULATOR
SECAM ref
SECAM DEEMPH. BLANKING COLOUR KILLER
SC PULSE DETECTOR
PULSE PROCESSING
DL1 DELAY LINE PAL DL 710
L40 774212 PHASE
L42 306024
AMPLITUDE
AMPL. R-Y
ZERO DISCRI R-Y
AMPL. B-Y
ZERO DISCRI. B-Y
L41 774212
L43 774212
L44 774212
SECAM IDENTIFICATION
COLOUR SYNCHRONISATION
Strap
Horizontal
Vertical
Hor + Vert.
Identification
CLAMPING CIRCUIT
DIFFERENTIATING STAGE
DIFFERENTIATING STAGE
GYRATOR DEL
PLUGGED IN ON AF STEREO AMPLIFIER BOARD (connector C)
+20V
LED1
LED2
LED 3
LED 4
LED 5
LED 6
Q1
Q2
Q3
Q4
NC
715842
Q1,Q2,Q3,Q4 = BC549B
791593 Colour system indicator
From R182
SECAM
N3
INSERT RGB SWITCH
PAL
N4
27 (IC3)
26 (IC3)
28 (IC3)
25 (IC3)
19
INTERCONNECTION
VOLTAGE ON BOARD
1/4W
1/2W
1W
1,5W
• All voltages are dc with respect to ground unless otherwise noticed.
• Readings are taken with a 10MΩ digital multimeter
No mark or ( ) : PAL
( ) : SECAM
[ ] : NTSC 3,58
PRODUCT SAFETY NOTICE
COMPONENTS MARKED WITH ⚠ OR * HAVE SPECIAL CHARACTERISTICS IMPORTANT TO SAFETY. BEFORE REPLACING ANY OF THESE COMPONENTS READ CAREFULLY THE SERVICE SAFETY PRECAUTIONS.
DO NOT DEGRADE THE SAFETY OF THIS SET THROUGH IMPROPER SERVICING.

| | | |


+10V
SATURATION
CONTRAST
BRIGHTNESS
HUE
BCL
+15V
INSERT RGB SWITCH
RED
TESTPOINT
GREEN
BLUE
VIDEO
VERTICAL AMPLITUDE CORRECTION
SANDCASTLE
VERTICAL PULSES
TO PIN1 CONNECTOR G
PAL/N4
SECAM
PAL/SEC
COLOUR SYNCHRONISATION
Strap
Horizontal
Vertical
Hor.+Vert.
Identification
SECAM IDENTIFICATION
IC 1
LM340T12
IC4
TDA 4560
THRESHOLD SWITCH
CLAMPING CIRCUIT
GYRATOR DELAY CELLS
DIFFERENTIATING STAGE
INTEGRATOR STAGE (pulseformer)
SWITCHING AND STORAGE STAGE
3-SIGNAL SWITCH
SATURATION CONTROL
CONTRAST CONTROL
BRIGHTNESS CONTROL
BLANKING
MAX SATURATION
TDA 3505
1. 5,2V
2. 6,7V
3. 5,2V
4. 6,6V
5. 5,1V
6. 12V
7. 8V
8. 8V
9. 8V
10. 1,5V
11. 0V
12. 4,4V
13. 4,4V
14. 4,4V
15. 2,9V
16. 3V
17. 4,2V
18. 4,2V
19. 2,7V
20. 1,9V
21. 4,5V
22. 5,5V
23. 5,7V
24. 0V
25. 5,5V
26. 5,5V
27. 3,3V
28. 6,8V
TDA 4560
1. 4,3V
2. 4,3V
3. 3,6V
4. 3,6V
5. 2,8V
6. 5,3V
7. 4,5V
8. 4,5V
9. 5,3V
10. 12V
11. 2,5V
12. 10,4V
13. 1,2V
14. 1,4V
15. 12V
16. 4V
17. 2V
18. 0V


INSERT RGB SWITCH
RED
TESTPOINT GREEN
BLUE
VIDEO
VERTICAL AMPLITUDE CORRECTION
SANDCASTLE
VERTICAL PULSES
IC 1
LM340T12
IC2
TDA 3505
3 SIGNAL SWITCH
CONTRAST CONTROL
BRIGHTNESS CONTROL
BLANKING
INSERTION OF BLACK CURRENT MEASURING PULSE
CONTR AMPL
CONTROLLED OUTPUT STAGE
COMPARATOR & V/I CONVERTER
SWITCHING & CLAMPING CIRCUIT
SAND-CASTLE DET
COUNTER & PULSE FORMER
DRIVER FOR SIGN SWITCHES
GAIN RED
GAIN GREEN
GAIN BLUE
To I SENCE ABL
RED
GREEN
BLUE
G1
Q1 BF 869
Q2 BF 869
Q3 BF 869
Q4 BF 869
Q5 BF 869
Q6 BF 869
Q21 BF 324
Q22 BF 324
Q23 BF 324
Q7 BC 548B
Q24 BC 327
D150 BAW 52
D151 1N4148
D160 BAW 52
D161 1N4148
D170 BAW 52
D171 1N4148
D7 1N4148
SR153
SR163
SR173
MODIFICATIONS RESERVED
Name QUAD DECODER + RGB AMPLIFIER
Article nr. 76 14559
Date 17/11/87
Drawn PG
Checked RDF
BARCO Electronic



- Voltages are dc with respect to ground unless otherwise noted
- Readings are taken with a 10MΩ digital multimeter.

No mark or ▭ : PAL
( ) : SECAM

PRODUCT SAFETY NOTICE

COMPONENTS MARKED WITH ⚠ OR * HAVE SPECIAL CHARACTERISTICS IMPORTANT TO SAFETY. BEFORE REPLACING ANY OF THESE COMPONENTS, READ CAREFULLY THE SERVICE SAFETY PRECAUTIONS.

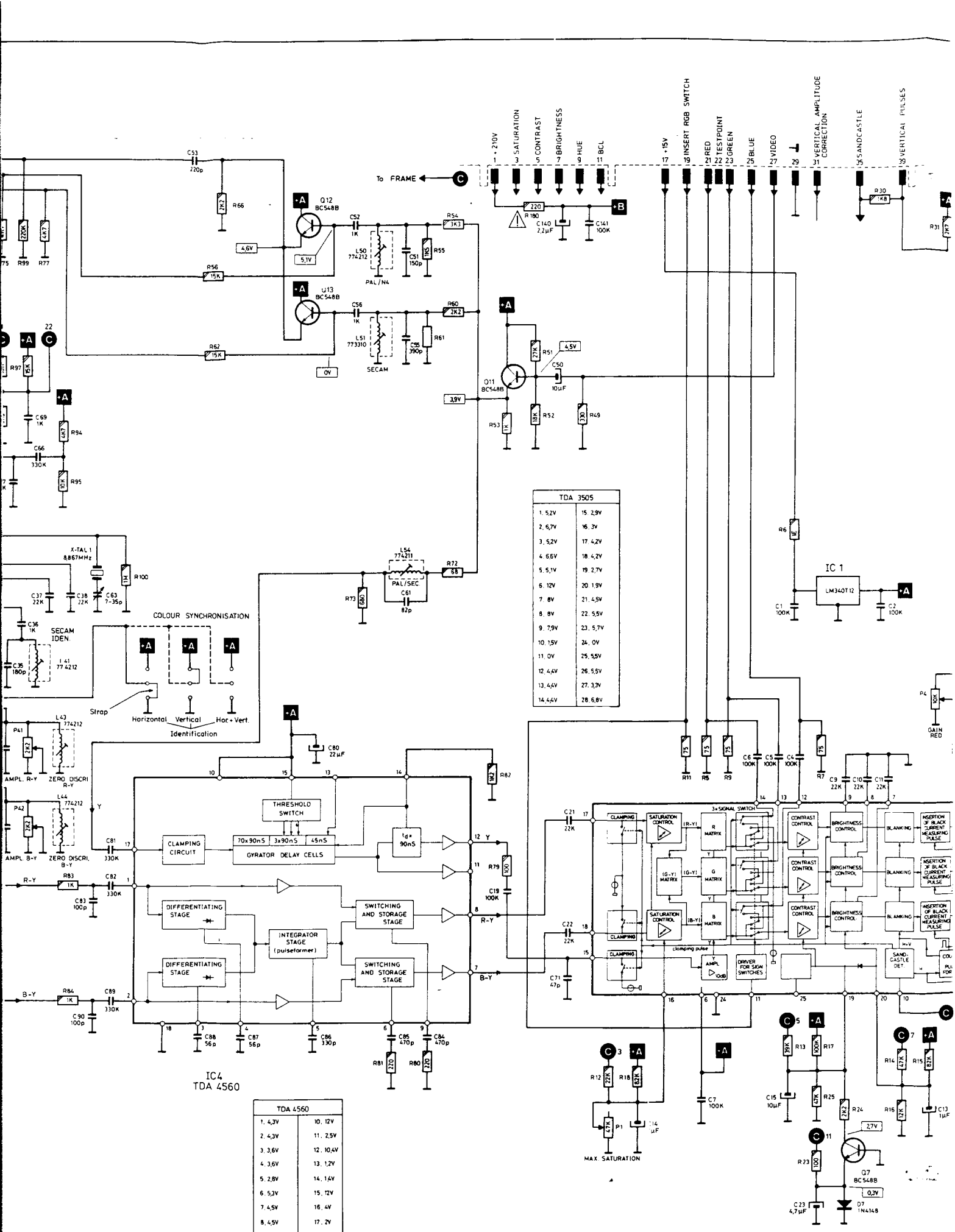
DO NOT DEGRADE THE SAFETY OF THIS SET THROUGH IMPROPER SERVICING.

1/4W 1/2W 1W 1.5W

● INTERCONNECTION

■ VOLTAGE ON BOARD

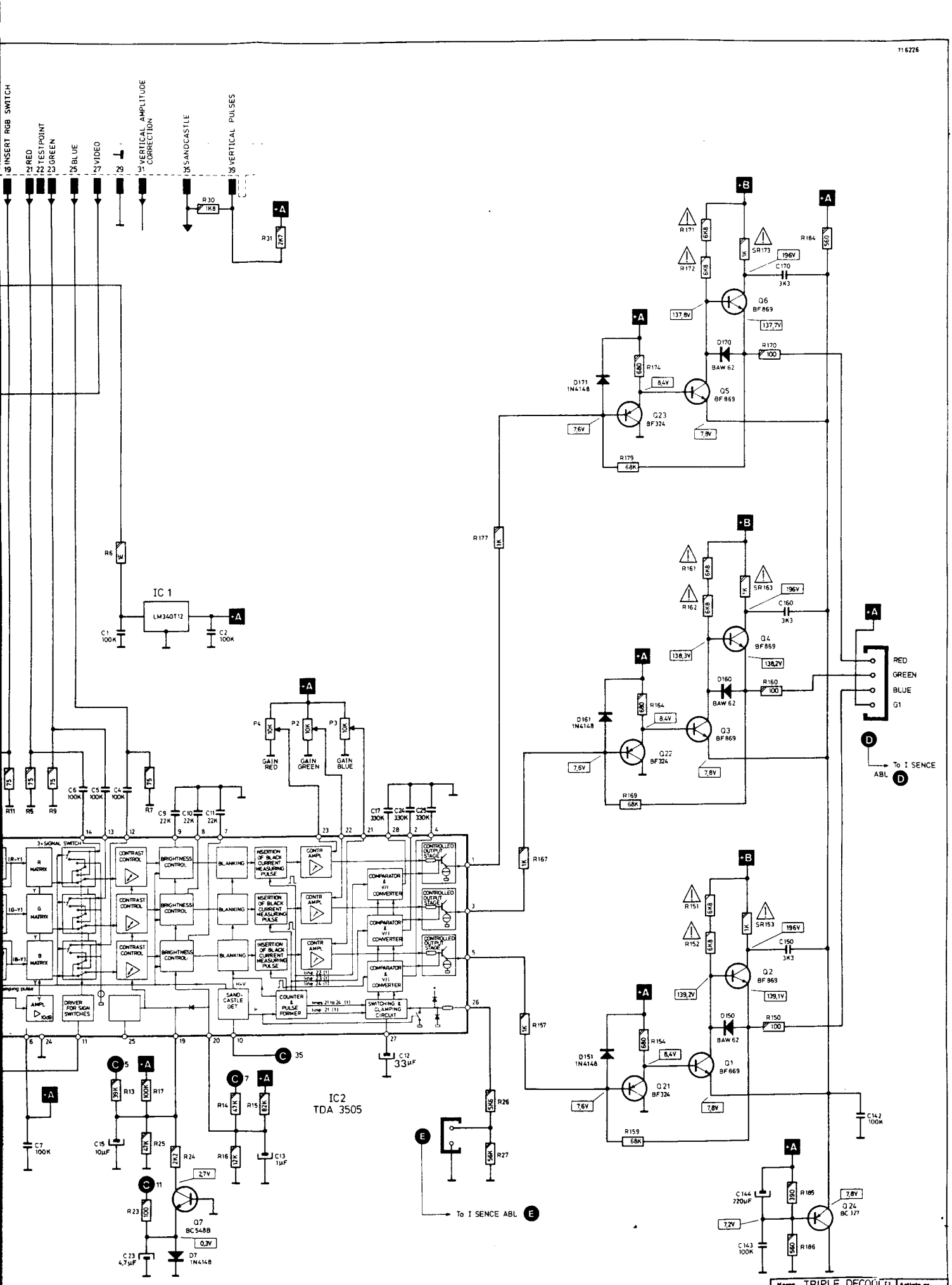
R	43	44 P40	42	75,99,50,98,77,97,P41,P42,94,95,83,84	100	56,66,62	
C	39	40	70,34,54,72	48	42,43,44,46,47	35,41,45,67,36,69,66,37,38,63,83,90,81,82,89	98,53	87
J								



TDA 3505	
1. 5,2V	15. 2,9V
2. 6,7V	16. 3V
3. 5,2V	17. 4,2V
4. 6,6V	18. 4,2V
5. 5,1V	19. 2,7V
6. 12V	20. 1,9V
7. 8V	21. 4,5V
8. 8V	22. 5,5V
9. 7,9V	23. 5,7V
10. 1,5V	24. 0V
11. 0V	25. 5,5V
12. 4,4V	26. 5,5V
13. 4,4V	27. 3,3V
14. 4,4V	28. 6,8V

TDA 4560	
1. 4,3V	10. 12V
2. 4,3V	11. 2,5V
3. 3,6V	12. 10,4V
4. 3,6V	13. 1,2V
5. 2,8V	14. 1,4V
6. 5,3V	15. 12V
7. 4,5V	16. 4V
8. 4,5V	17. 2V
9. 5,3V	18. 0V

| | | |

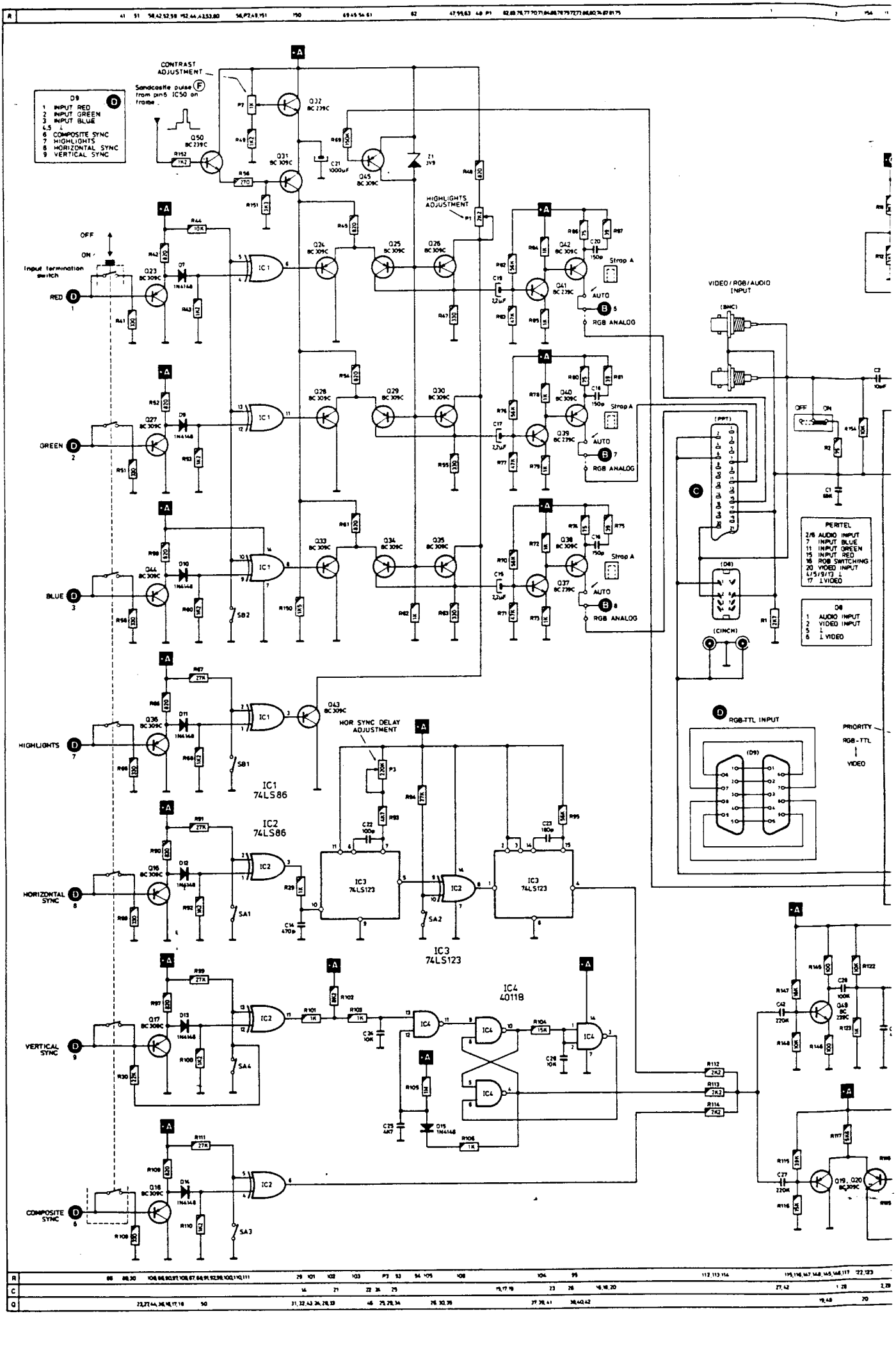


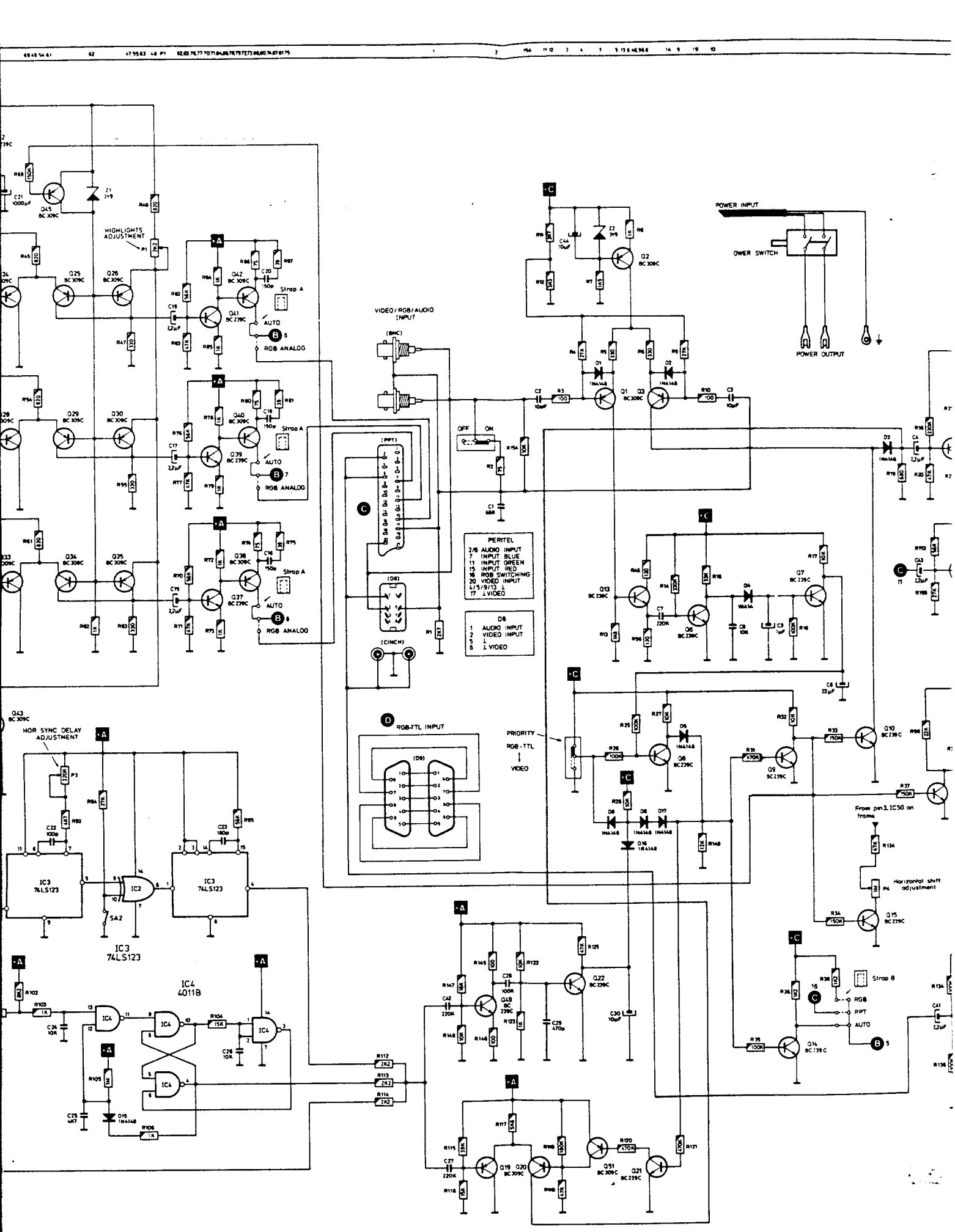
MODIFICATIONS RESERVED

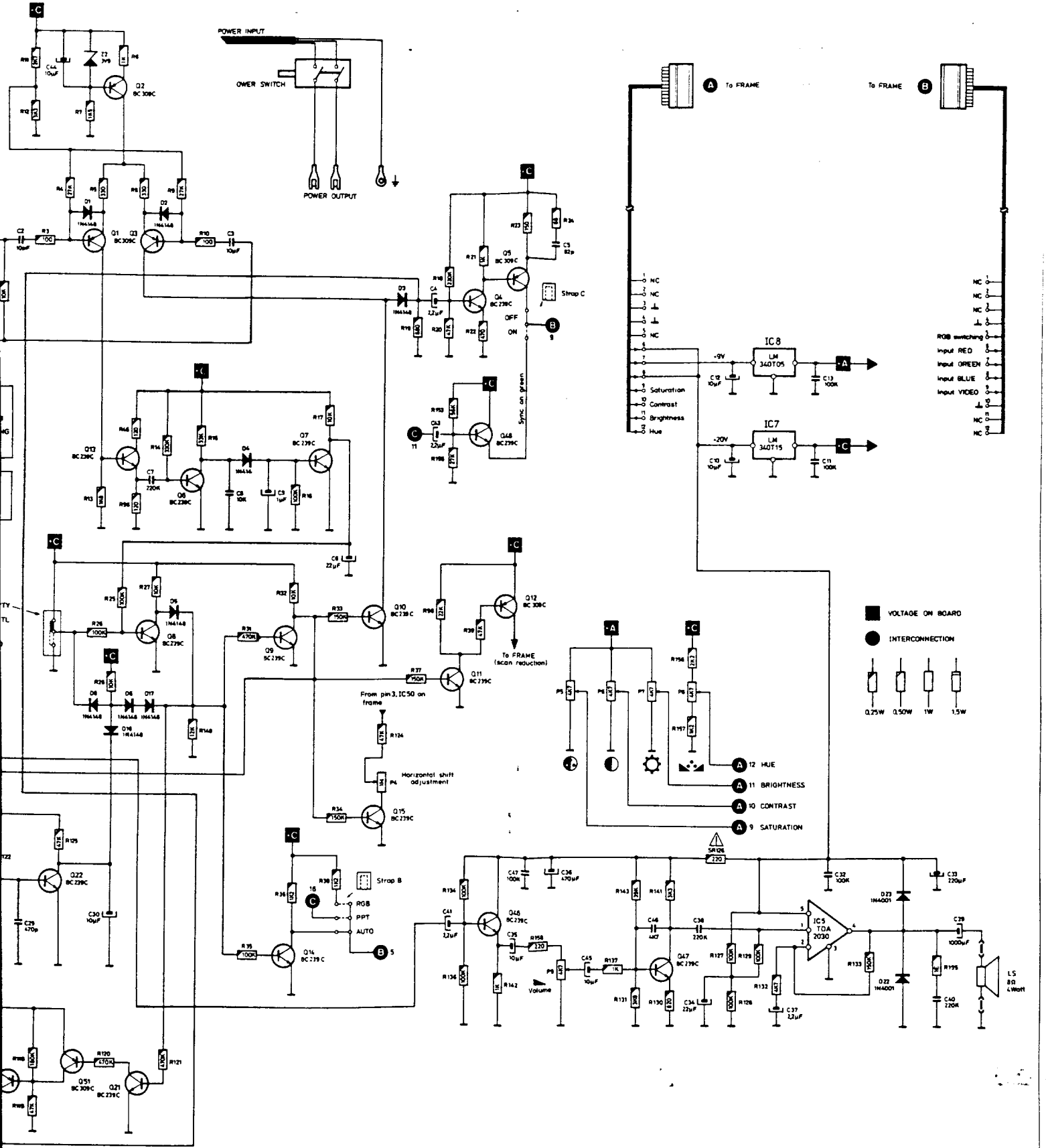
Name	TRIPLE DECODER +RGB AMPLIFIER	Article nr.	76 14549
Date	17/11/87	Drawn	PG
		Checked	RDF

BARCO Electronic

56 14549


CONTRAST ADJUSTMENT
Sandcastle pulse from pin 6 IC50 on frame
D9
1 INPUT RED
2 INPUT GREEN
3 INPUT BLUE
4,5 ⊥
6 COMPOSITE SYNC
7 HIGHLIGHTS
8 HORIZONTAL SYNC
9 VERTICAL SYNC
HIGHLIGHTS ADJUSTMENT
OFF
ON
Input termination switch
RED
GREEN
BLUE
HIGHLIGHTS
HORIZONTAL SYNC
VERTICAL SYNC
COMPOSITE SYNC
HOR SYNC DELAY ADJUSTMENT
IC1 74LS86
IC2 74LS86
IC3 74LS123
IC4 40118
AUTO
RGB ANALOG
Strap A
VIDEO / RGB / AUDIO INPUT
(BNC)
(PPT)
(D8)
(CINCH)
PERITEL
2/6 AUDIO INPUT
7 INPUT BLUE
11 INPUT GREEN
15 INPUT RED
16 RGB SWITCHING
20 VIDEO INPUT
4/5/9/13 ⊥
17 ⊥ VIDEO
D8
1 AUDIO INPUT
2 VIDEO INPUT
5 ⊥
6 ⊥ VIDEO
RGB-TTL INPUT
PRIORITY
RGB-TTL
VIDEO

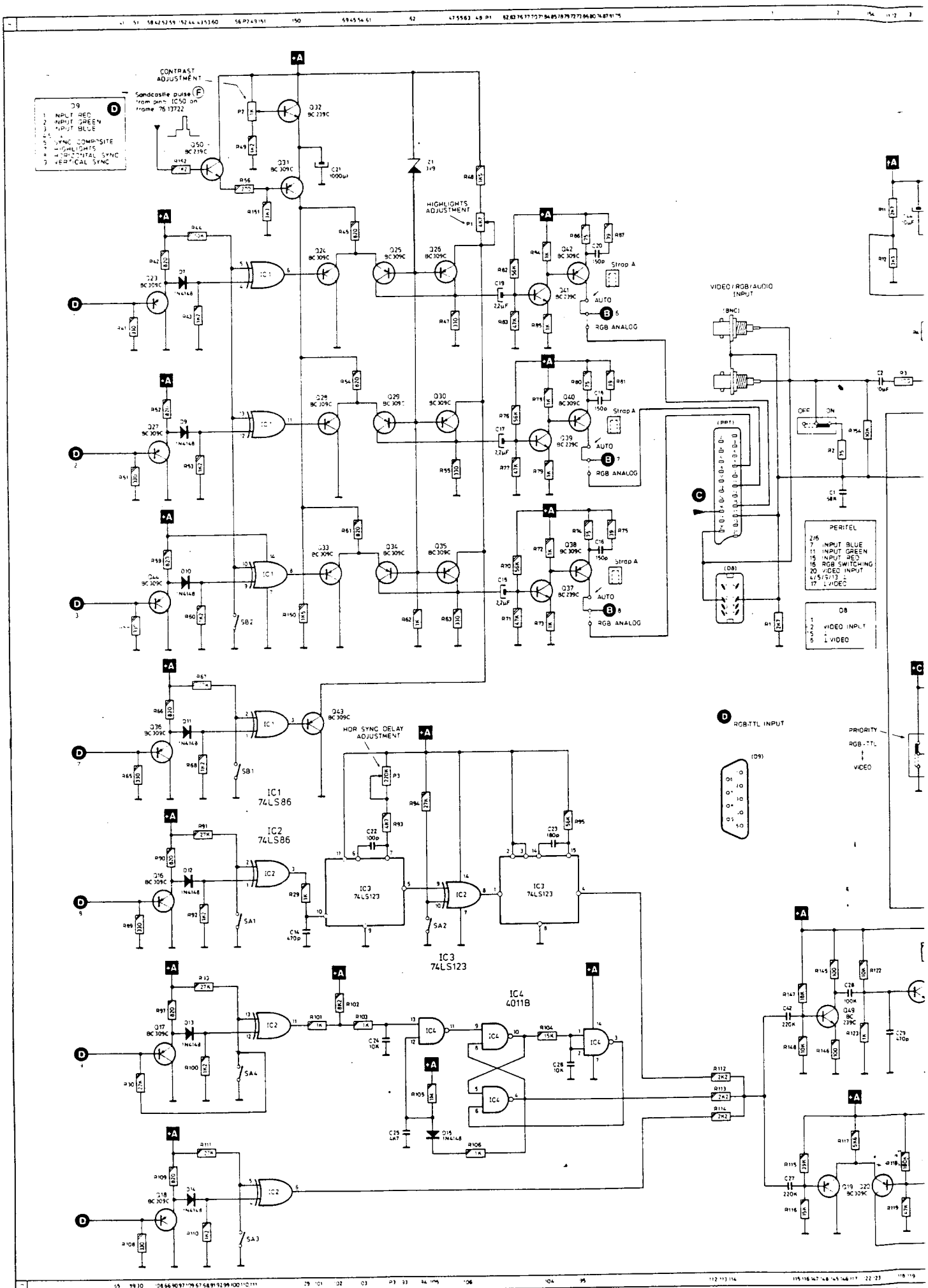

POWER INPUT
POWER SWITCH
POWER OUTPUT
VIDEO / RGB / AUDIO INPUT
(BNC)
(PPT)
(D8)
(CINCH)
OFF
ON
PERITEL
2/6 AUDIO INPUT
7 INPUT BLUE
11 INPUT GREEN
15 INPUT RED
16 RGB SWITCHING
20 VIDEO INPUT
4/5/9/13 ⊥
17 ⊥ VIDEO
D8
1 AUDIO INPUT
2 VIDEO INPUT
3 ⊥
6 ⊥ VIDEO
RGB-TTL INPUT
(D9)
PRIORITY
RGB-TTL
VIDEO
HIGHLIGHTS ADJUSTMENT
HOR SYNC DELAY ADJUSTMENT
Strap A
Strap B
AUTO
RGB ANALOG
RGB
PPT
From pin 3, IC50 on frame
Horizontal shift adjustment
IC3 74LS123
IC4 40118
SA2

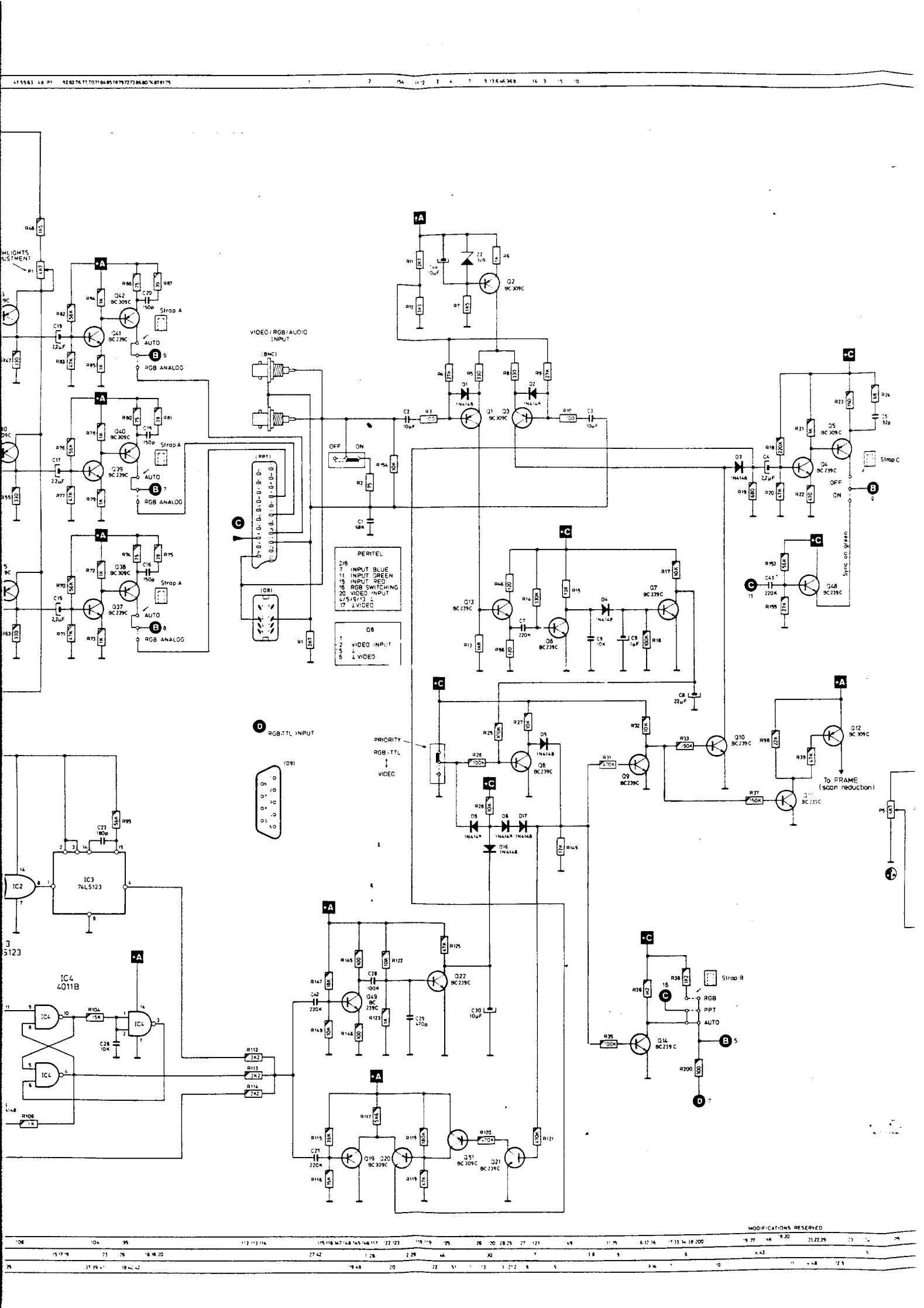


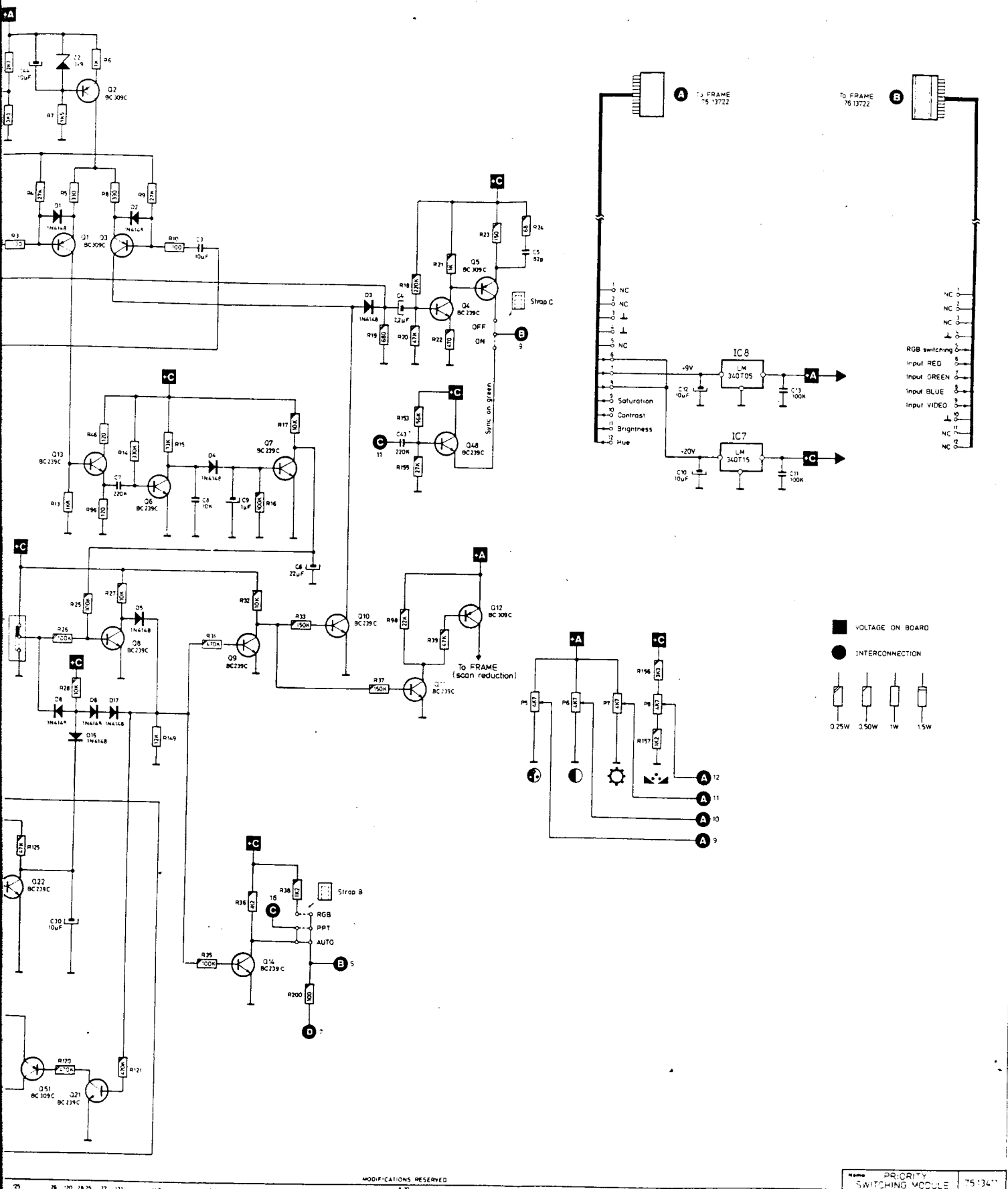
MODIFICATIONS RESERVED

PRIORITY SWITCHING MODULE		Artwork no.	76 1343
Date 20/08/87	Drawn PG	Checked TV	

BARCO Electronic


CONTRAST ADJUSTMENT
Sandcastle pulse from pin 1C50 on frame 76 13722
D9
1 INPUT RED
2 INPUT GREEN
3 INPUT BLUE
4
5 SYNC COMPOSITE
6 HIGHLIGHTS
7 HORIZONTAL SYNC
8 VERTICAL SYNC
HIGHLIGHTS ADJUSTMENT
VIDEO/RGB/AUDIO INPUT
(BNC)
RGB ANALOG
AUTO
Strap A
PERITEL
2/6
7 INPUT BLUE
11 INPUT GREEN
15 INPUT RED
16 RGB SWITCHING
20 VIDEO INPUT
4/5/13
17 VIDEO
D8
VIDEO INPUT
VIDEO
RGB-TTL INPUT
PRIORITY
RGB-TTL
VIDEO
HOR SYNC DELAY ADJUSTMENT
IC1
74LS86
IC2
74LS86
IC3
74LS123
IC4
4011B
SB1
SB2
SA1
SA2
SA3
SA4

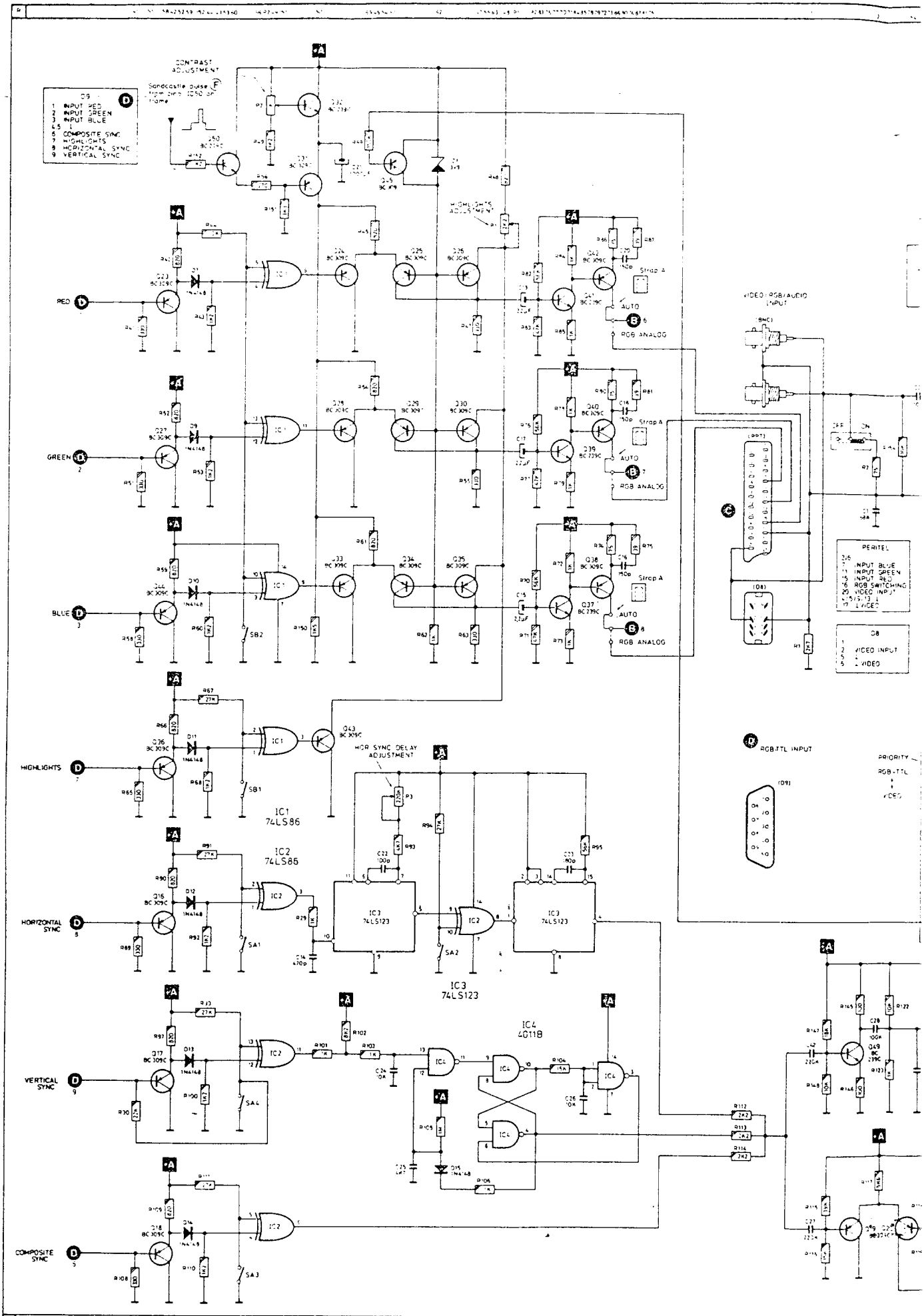

VIDEO / RGB / AUDIO INPUT
(BNC)
(PPT)
(DB)
PERITEL
2/6
7 INPUT BLUE
11 INPUT GREEN
15 INPUT RED
16 RGB SWITCHING
20 VIDEO INPUT
4/5/9/13 ⊥
17 ⊥ VIDEO
DB
1
2 VIDEO INPUT
5 ⊥
6 ⊥ VIDEO
OFF ON
RGB ANALOG
AUTO
Strap A
Strap B
Strap C
RGB
PPT
Sync on green
RGB-TTL INPUT
(D9)
PRIORITY
RGB-TTL
VIDEO
To FRAME (scan reduction)
IC2
IC3
74LS123
IC4
4011B
MODIFICATIONS RESERVED

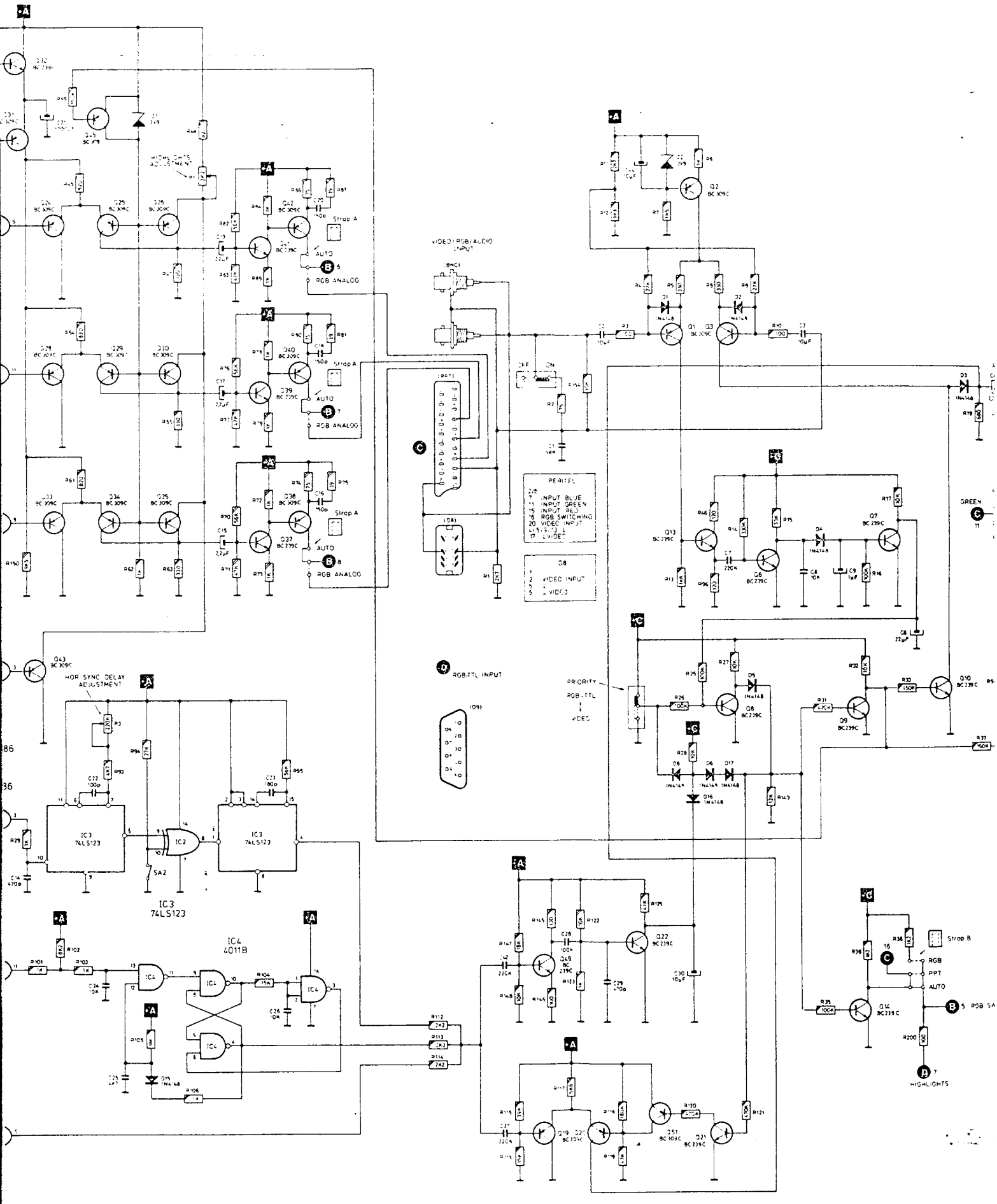


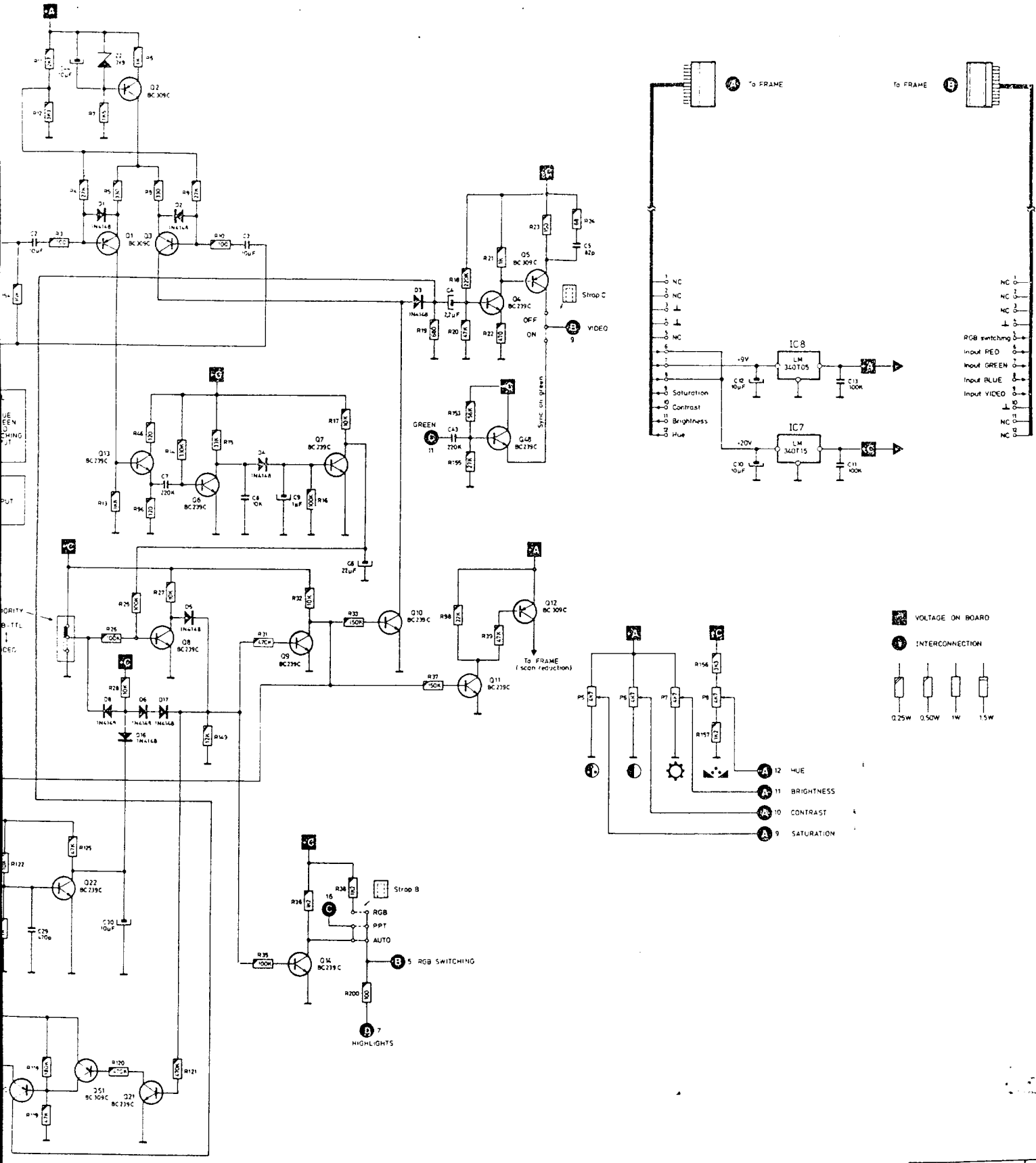
MODIFICATIONS RESERVED

Name	PRIORITY SWITCHING MODULE		75 134**
Date	29/02/87	Drawn PG	Checked

BARCO Electronic


CONTRAST ADJUSTMENT
HIGHLIGHTS ADJUSTMENT
HOR SYNC DELAY ADJUSTMENT
RED
GREEN
BLUE
HIGHLIGHTS
HORIZONTAL SYNC
VERTICAL SYNC
COMPOSITE SYNC
RGB ANALOG
AUTO
Strap A
VIDEO/RGB/AUDIO INPUT
PERITEL
RGB/TTL INPUT
PRIORITY
RGB-TTL
VIDEO
IC1 74LS86
IC2 74LS86
IC3 74LS123
IC4 4011B
SA1
SA2
SA3
SA4
SB1
SB2

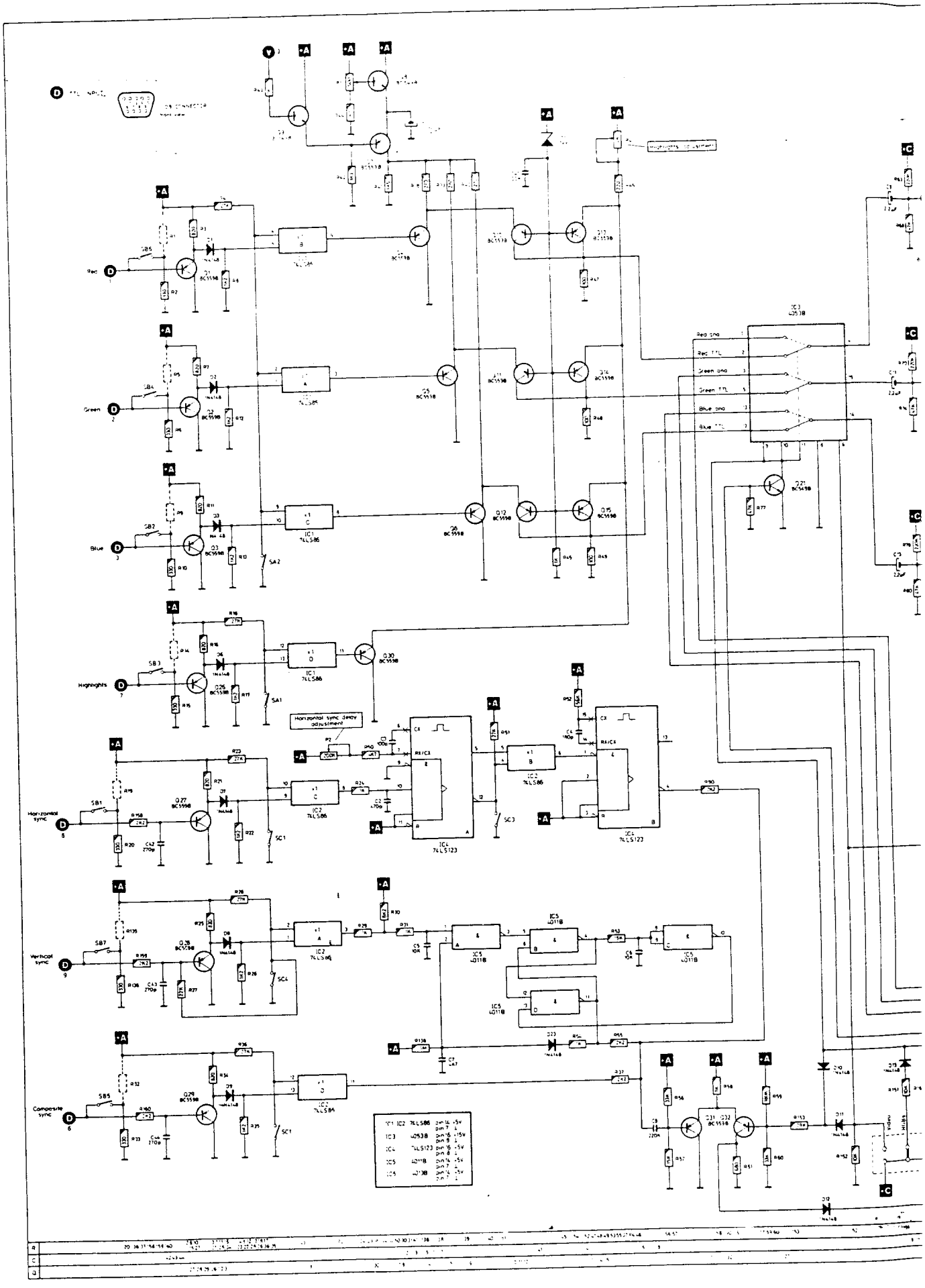

VIDEO/RGB/AUDIO INPUT
BNC1
(9P1)
(D8)
PERITEL
INPUT BLUE
INPUT GREEN
INPUT RED
RGB SWITCHING
VIDEO INPUT
VIDEO
D8
VIDEO INPUT
VIDEO
RGB-TTL INPUT
(D9)
PRIORITY
RGB-TTL
VIDEO
HOR SYNC DELAY ADJUSTMENT
HIGHLIGHTS ADJUSTMENT
IC3
74LS123
IC4
4011B
Strap A
Strap B
AUTO
RGB ANALOG
RGB
PPT
HIGHLIGHTS
GREEN

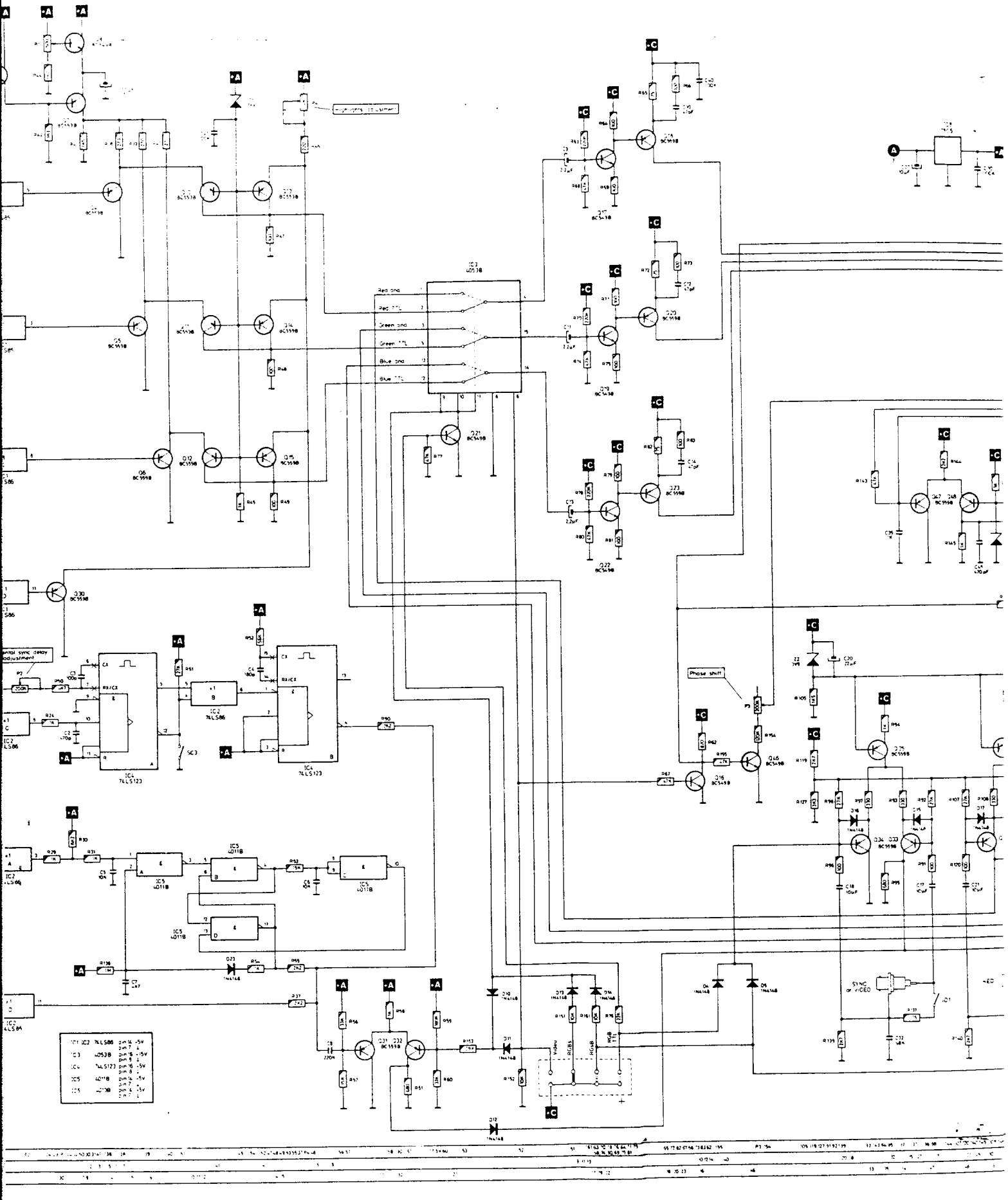


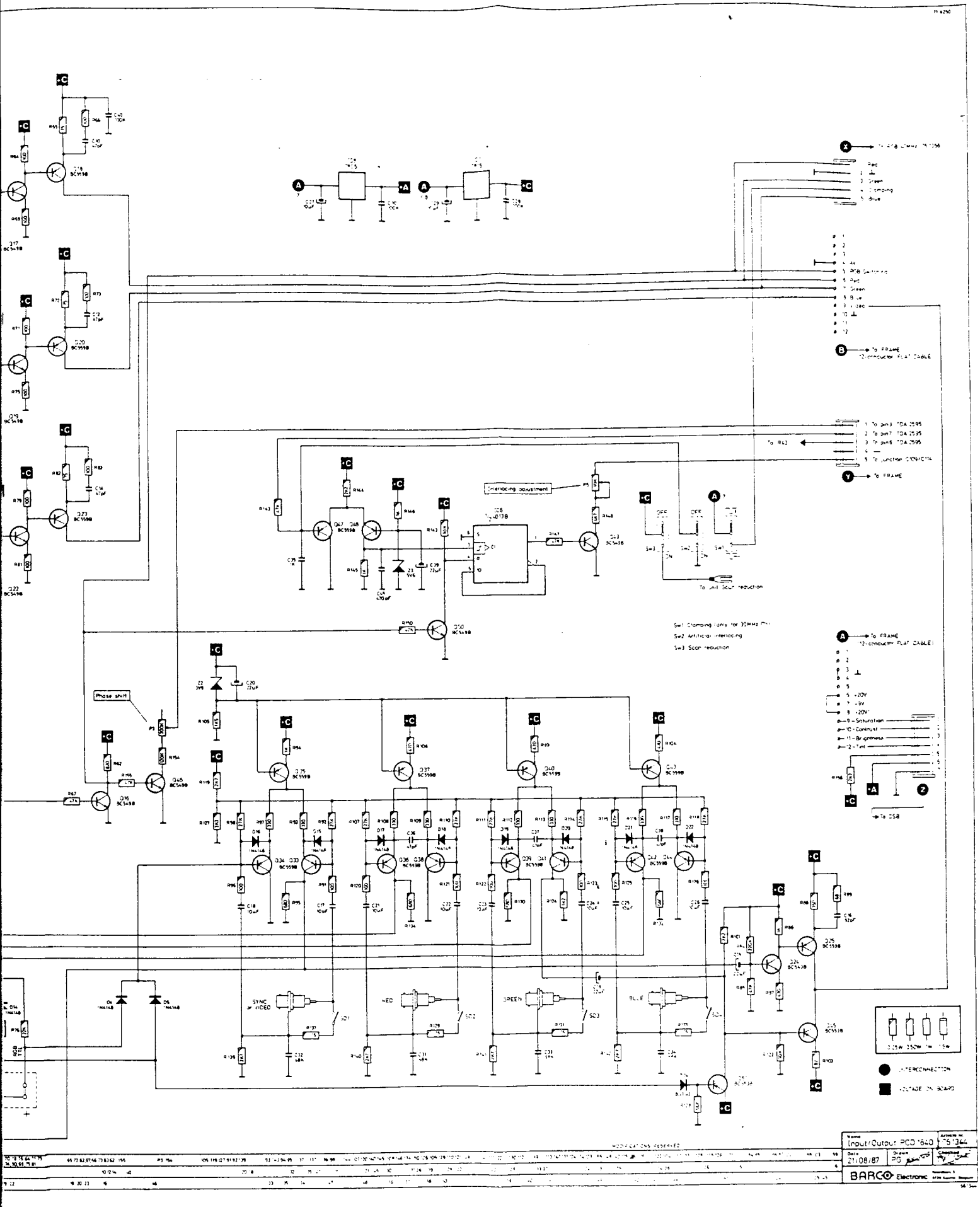
MODIFICATIONS RESERVED

Name	PRIORITY SWITCHING MODULE
	7613-
Date	20/08/87
Drawn	PO
Checked	TV

BARCO Electronic


Red
Green
Blue
Highlights
Horizontal sync
Vertical sync
Composite sync
Horizontal sync delay adjustment
IC1 74LS86
IC2 74LS86
IC3 40538
IC4 74LS123
IC5 40118
IC6 40138
IC1 IC2 74LS86 pin 14 +5V pin 7 0
IC3 40538 pin 16 +15V pin 8 0
IC4 74LS123 pin 16 +5V pin 8 0
IC5 40118 pin 14 +5V pin 7 0
IC6 40138 pin 16 +5V pin 8 0


Red gnd
Red +5V
Green gnd
Green +5V
Blue gnd
Blue +5V
IC2 4053B
Phase shift
SYNC OF VIDEO
IC1 IC2 74LS86 pin 14 +5V pin 7 0V
IC3 4053B pin 16 +5V pin 8 0V
IC4 74LS123 pin 16 +5V pin 8 0V
IC5 4011B pin 14 +5V pin 7 0V
IC6 4013B pin 14 +5V pin 7 0V



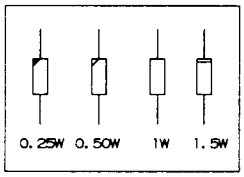
MODIFICATIONS RESERVED

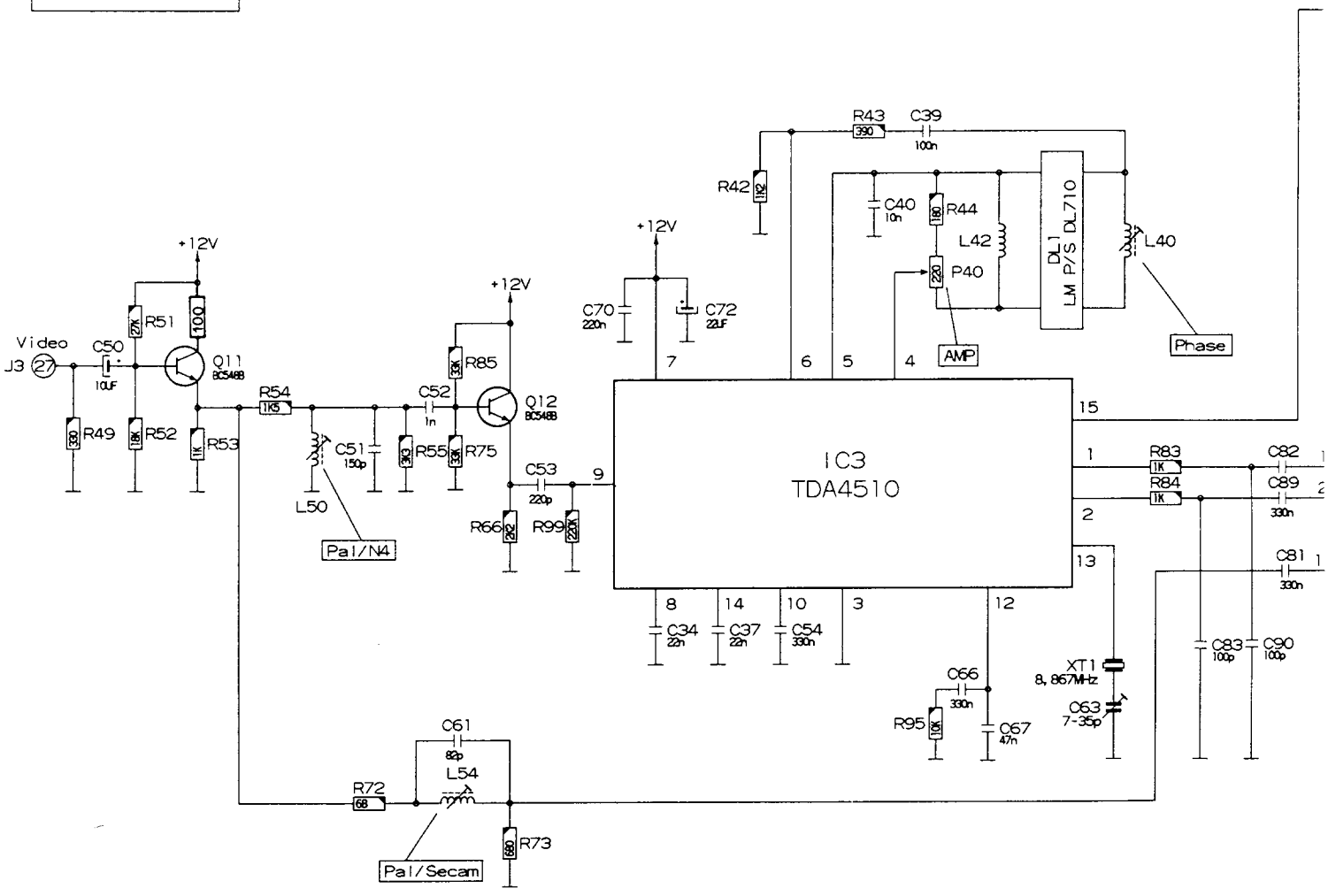
Name	Input/Output PCD 1640
Article no	75 1364
Date	21/08/87
Drawn	PD
Checked	

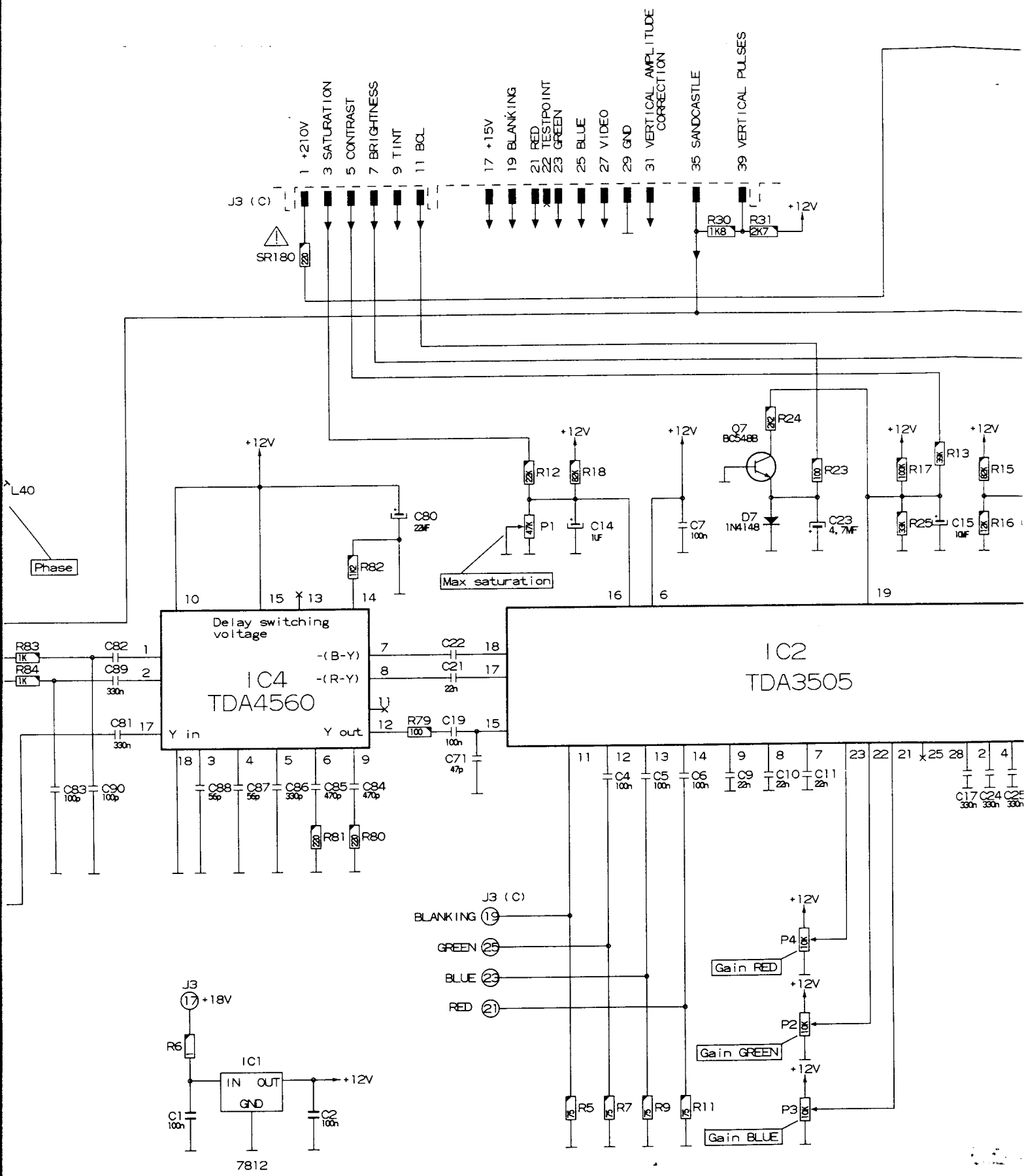
BARCO Electronic

PRODUCT SAFETY NOTICE

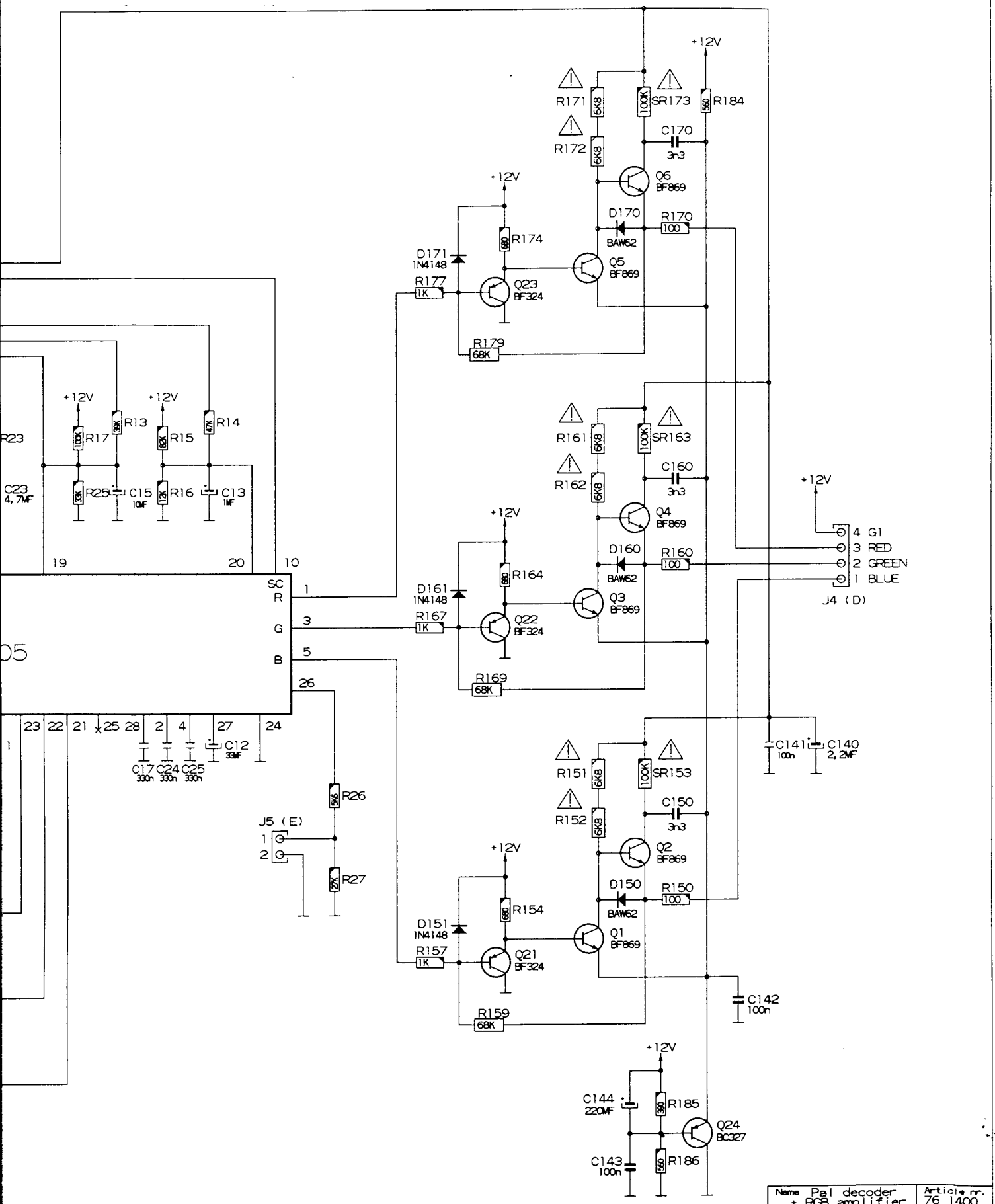
COMPONENTS MARKED WITH * OR ⚠ HAVE SPECIAL CHARACTERISTICS IMPORTANT TO SAFETY BEFORE REPLACING ANY OF THESE COMPONENTS. READ CAREFULLY THE SERVICE SAFETY PRECAUTIONS.
DO NOT DEGRADE THE SAFETY OF THIS SET THROUGH IMPROPER SERVICING





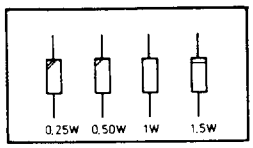


Modifications reserved



Name Pal decoder + RGB amplifier		Article nr. 76 1400
Date	Drawn PG	Checked RDF

ions reserved



PRODUCT SAFETY NOTICE

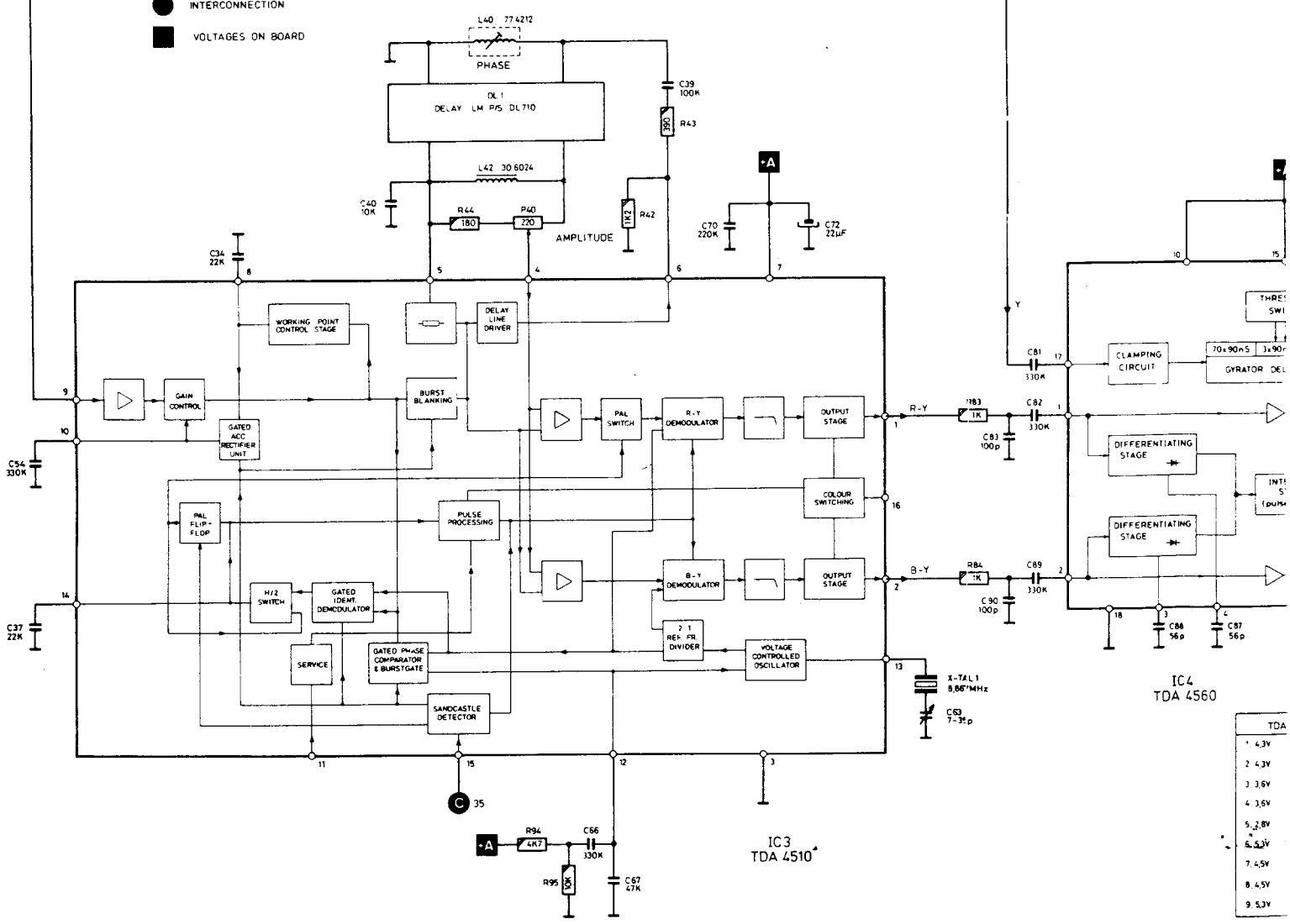
COMPONENTS MARKED WITH ⚠ OR * HAVE SPECIAL CHARACTERISTICS IMPORTANT TO SAFETY. BEFORE REPLACING ANY OF THESE COMPONENTS, READ CAREFULLY THE SERVICE SAFETY PRECAUTIONS.

DO NOT DEGRADE THE SAFETY OF THIS SET THROUGH IMPROPER SERVICING.

TDA 4510	
1 7,8V	9 3,2V
2 7,8V	10 8,1V
3 0V	11 2,9V
4 2,3V	12 8V
5 2,3V	13 2,3V
6 8,3V	14 7,1V
7 12	15 1,4V
8 5,7V	16 5,9V

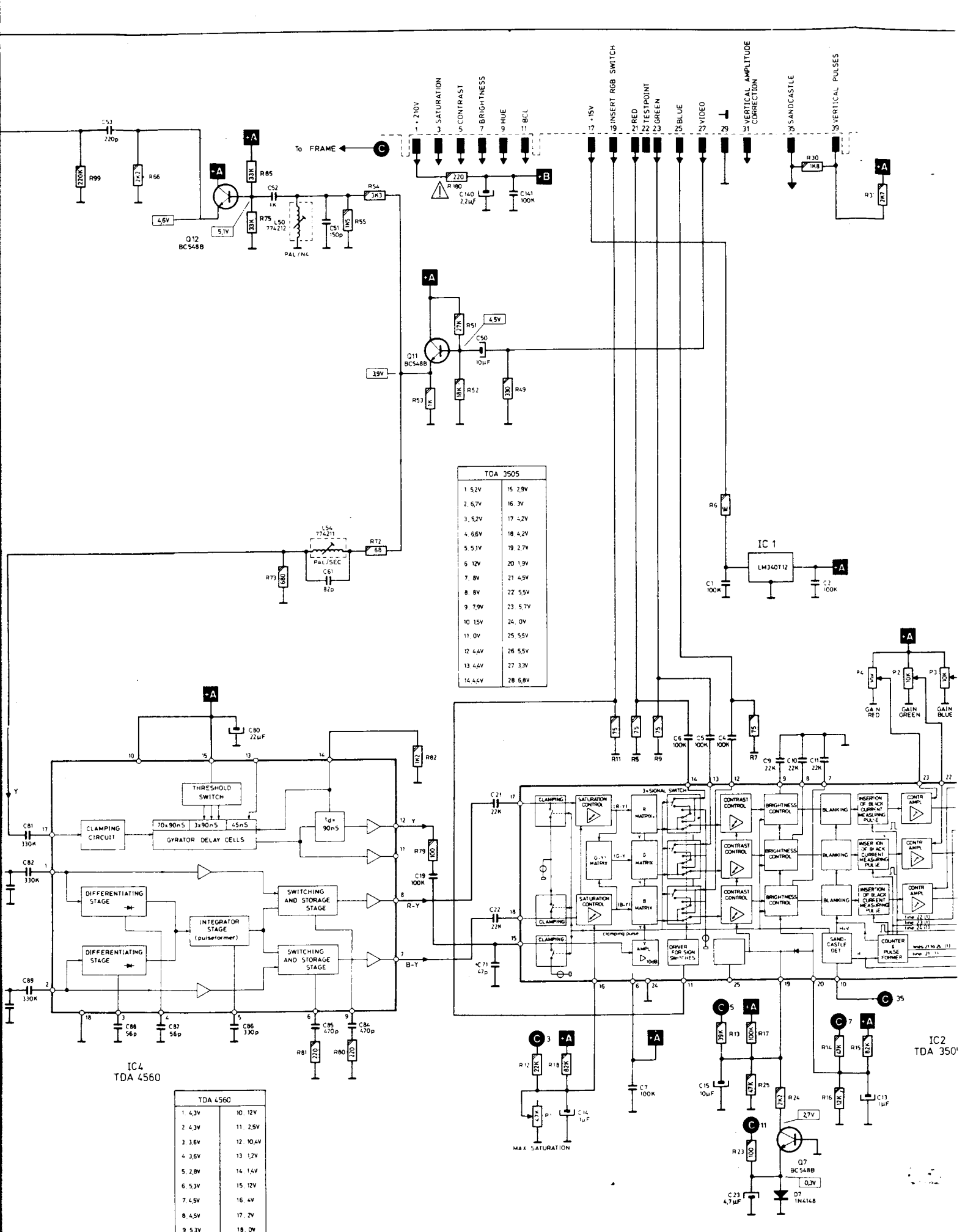
● INTERCONNECTION

■ VOLTAGES ON BOARD



TDA	
1 4,3V	
2 4,3V	
3 3,6V	
4 3,6V	
5 2,8V	
6 5,3V	
7 4,5V	
8 4,5V	
9 5,3V	

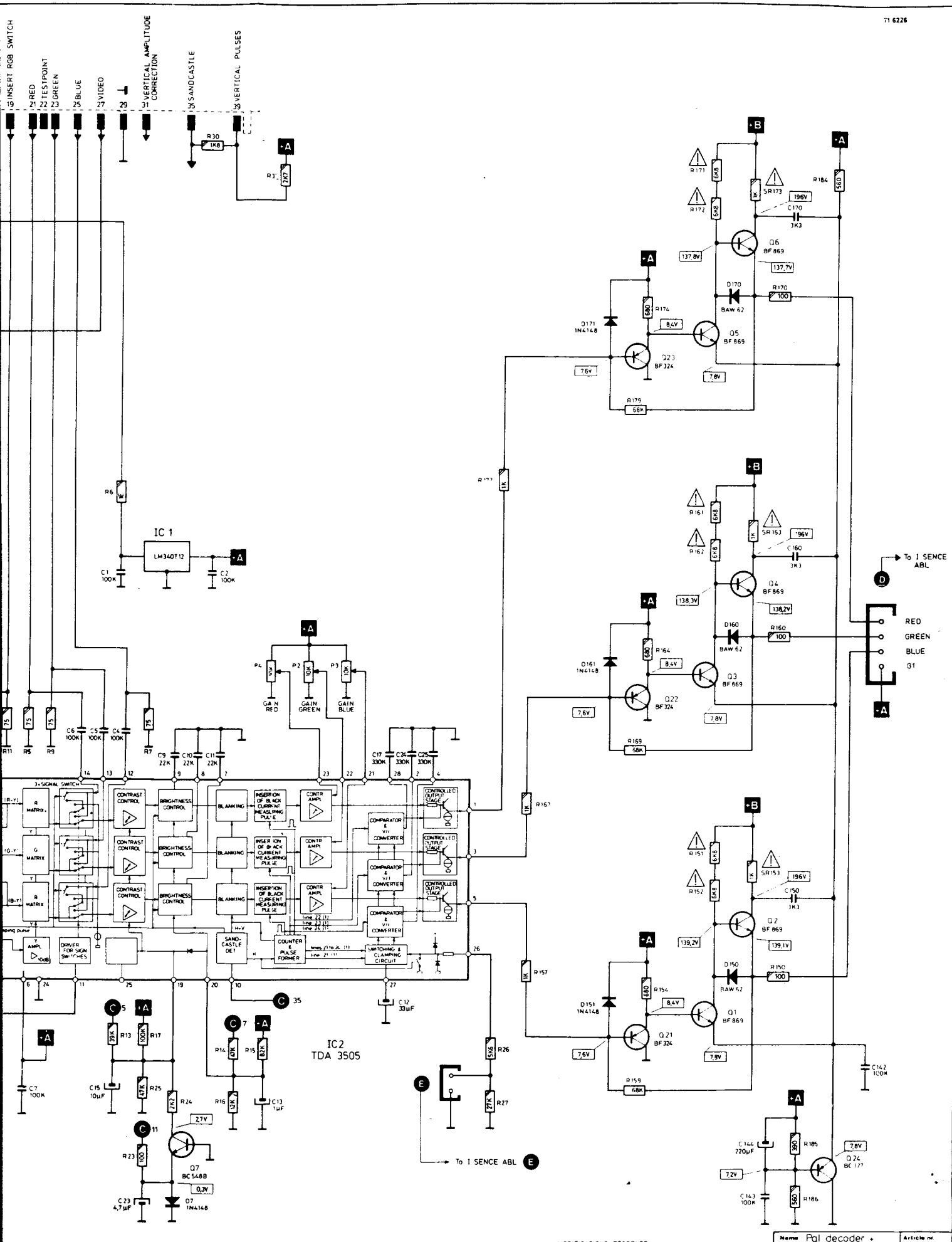
| | | |

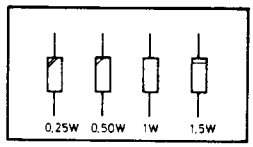


TDA 3505	
1. 5,2V	15. 2,9V
2. 6,7V	16. 3V
3. 5,2V	17. 4,2V
4. 6,6V	18. 4,2V
5. 5,1V	19. 2,7V
6. 12V	20. 1,9V
7. 8V	21. 4,5V
8. 8V	22. 5,5V
9. 7,9V	23. 5,7V
10. 1,5V	24. 0V
11. 0V	25. 5,5V
12. 4,4V	26. 5,5V
13. 4,4V	27. 3,3V
14. 4,4V	28. 6,8V

TDA 4560	
1. 4,3V	10. 12V
2. 4,3V	11. 2,5V
3. 3,6V	12. 10,4V
4. 3,6V	13. 1,2V
5. 2,8V	14. 1,4V
6. 5,3V	15. 12V
7. 4,5V	16. 4V
8. 4,5V	17. 2V
9. 5,3V	18. 0V

99 100 66 75,85 73 81 55 80,54 72 82 79,53 180 51,52 49 12,P1 18 11 5 9 13,6 17,23,25,7 24 30 14,16 15,P4 31,P2 P3
83,90,81,82,89 88,53 87 80,86 52 85,51 61,84 19 50,140,21,22,71,141 14 7 6 5 15 4,1 23 9 10 2,11 13
12 11 7


INSERT RGB SWITCH
RED
TESTPOINT GREEN
BLUE
VIDEO
VERTICAL AMPLITUDE CORRECTION
SANDCASTLE
VERTICAL PULSES
IC 1
LM340T12
IC2
TDA 3505
Q6 BF 869
Q5 BF 869
Q4 BF 869
Q3 BF 869
Q2 BF 869
Q1 BF 869
Q23 BF 324
Q22 BF 324
Q21 BF 324
Q7 BC 548B
Q24 BC 177
D170 BAW 62
D160 BAW 62
D150 BAW 62
D171 1N4148
D161 1N4148
D151 1N4148
D7 1N4148
To I SENCE ABL
RED
GREEN
BLUE
G1
GAIN RED
GAIN GREEN
GAIN BLUE
CONTRAST CONTROL
BRIGHTNESS CONTROL
BLANKING
CONTR AMPL
CONTROLLED OUTPUT STAGE
COMPARATOR & V/I CONVERTER
SAND-CASTLE DET
COUNTER & PULSE FORMER
SWITCHING & CLAMPING CIRCUIT
MODIFICATIONS RESERVED
Name Pal decoder + RGB amplifier
Article nr 76 14009
Date 17/11/87
Drawn PG
Checked RDF
BARCO Electronic
66 14009



PRODUCT SAFETY NOTICE

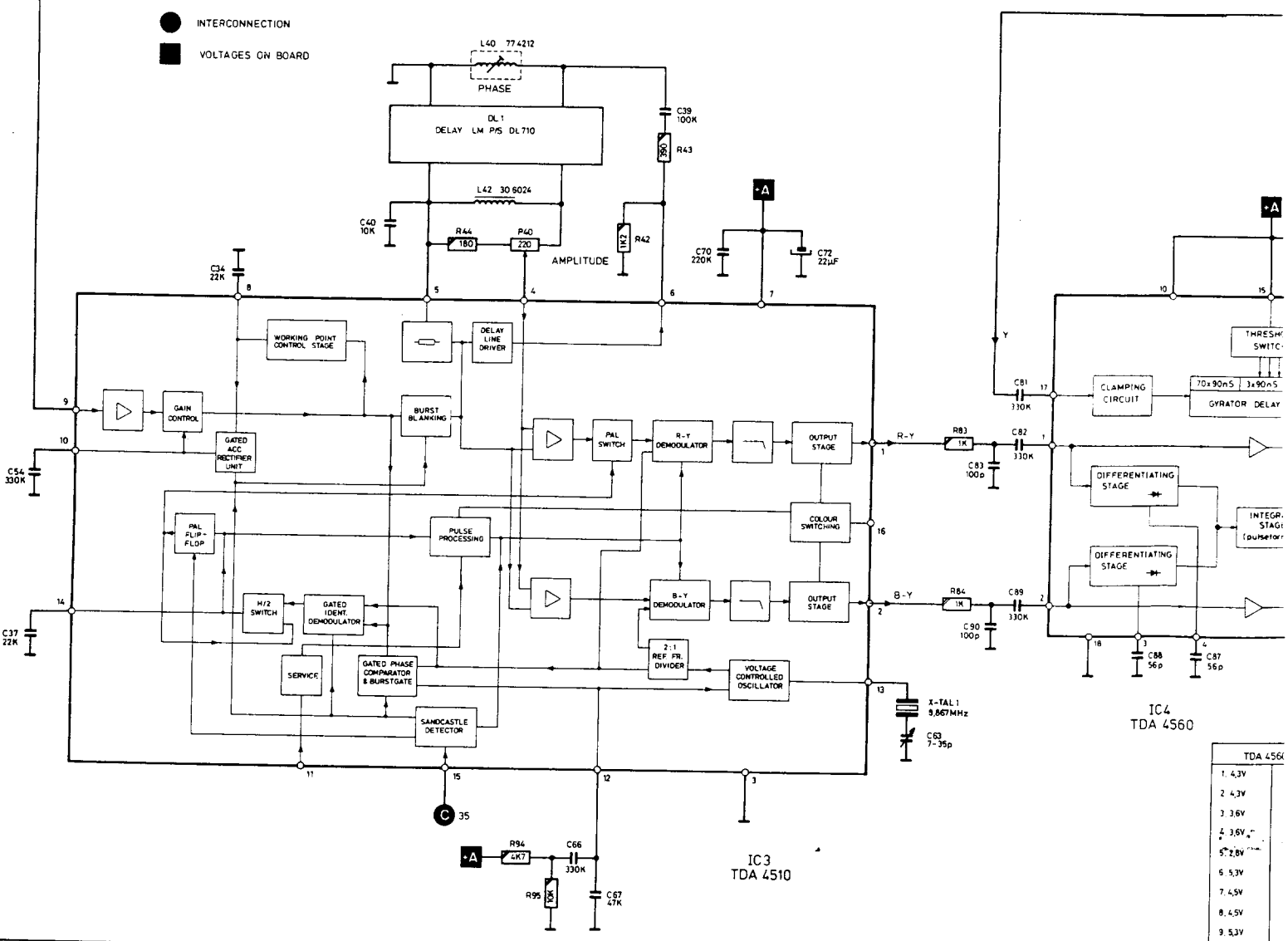
COMPONENTS MARKED WITH ⚠ OR * HAVE SPECIAL CHARACTERISTICS IMPORTANT TO SAFETY. BEFORE REPLACING ANY OF THESE COMPONENTS, READ CAREFULLY THE SERVICE SAFETY PRECAUTIONS.

DO NOT DEGRADE THE SAFETY OF THIS SET THROUGH IMPROPER SERVICING

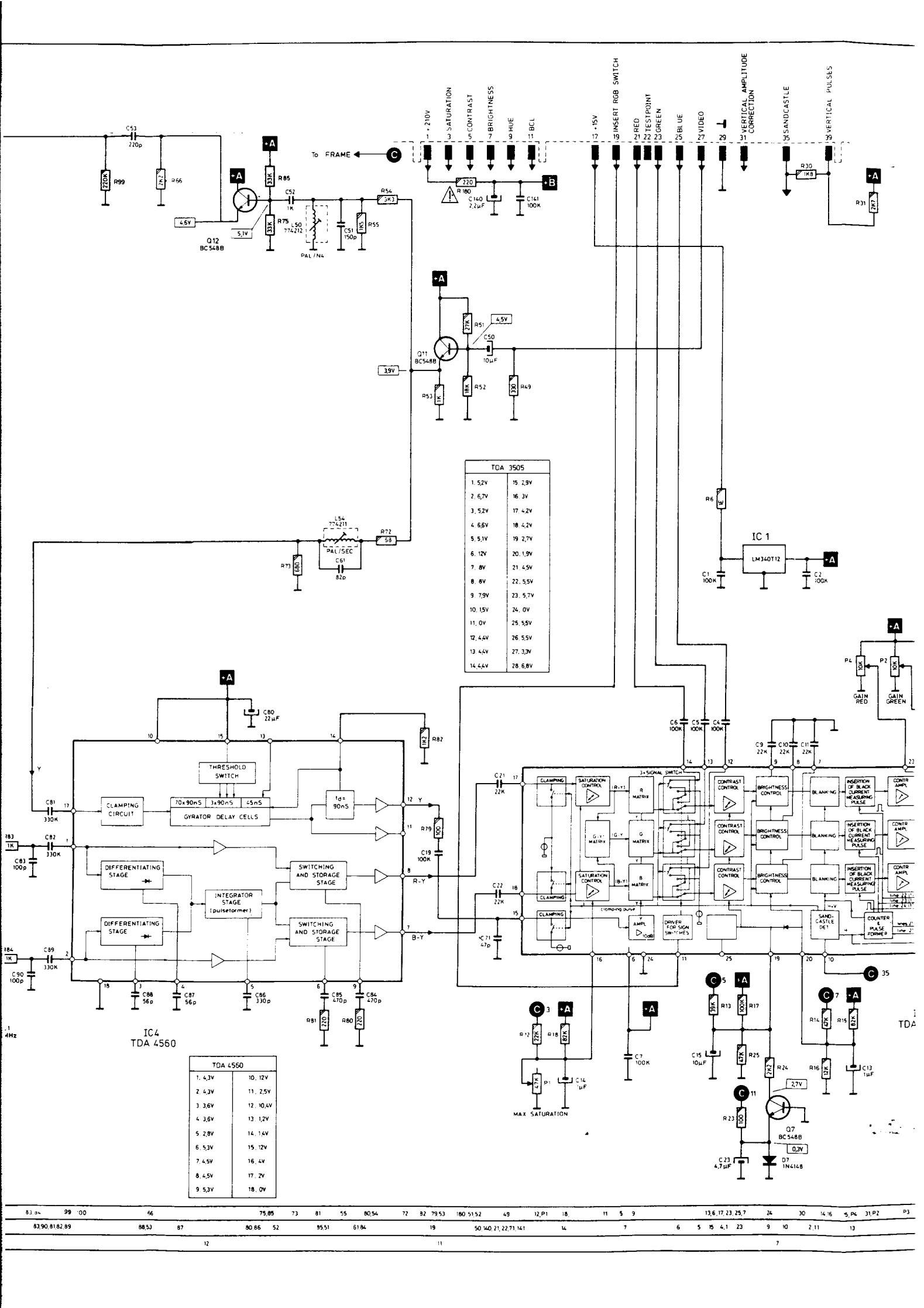
TDA 4510	
1. 7,8V	9. 3,2V
2. 7,8V	10. 8,1V
3. 0V	11. 2,9V
4. 2,3V	12. 8V
5. 2,3V	13. 2,3V
6. 8,3V	14. 7,1V
7. 12	15. 1,4V
8. 5,7V	16. 5,9V

● INTERCONNECTION

■ VOLTAGES ON BOARD

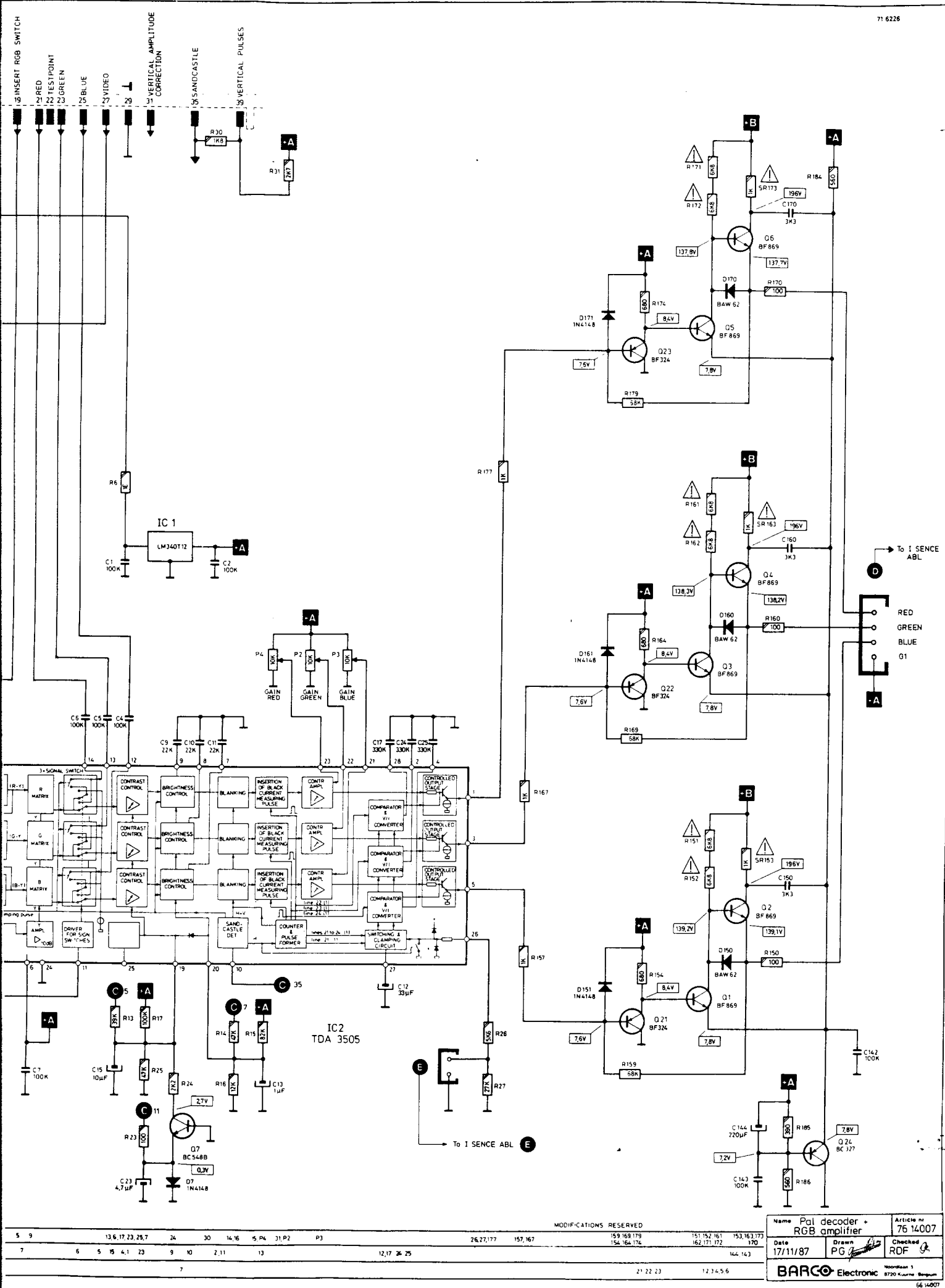


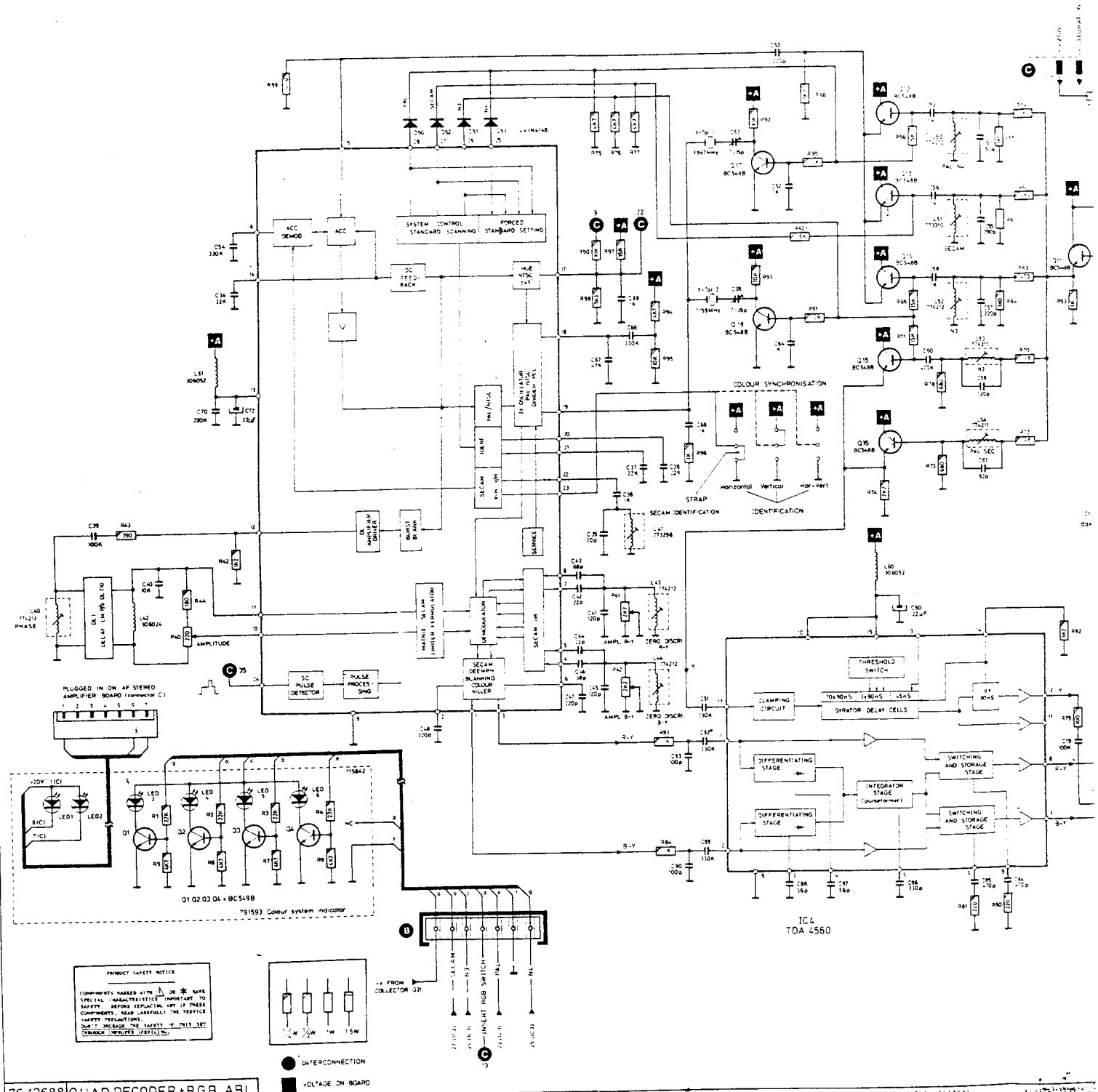
TDA 4560
1. 4,3V
2. 4,3V
3. 3,6V
4. 3,6V
5. 2,8V
6. 5,3V
7. 4,5V
8. 4,5V
9. 5,3V



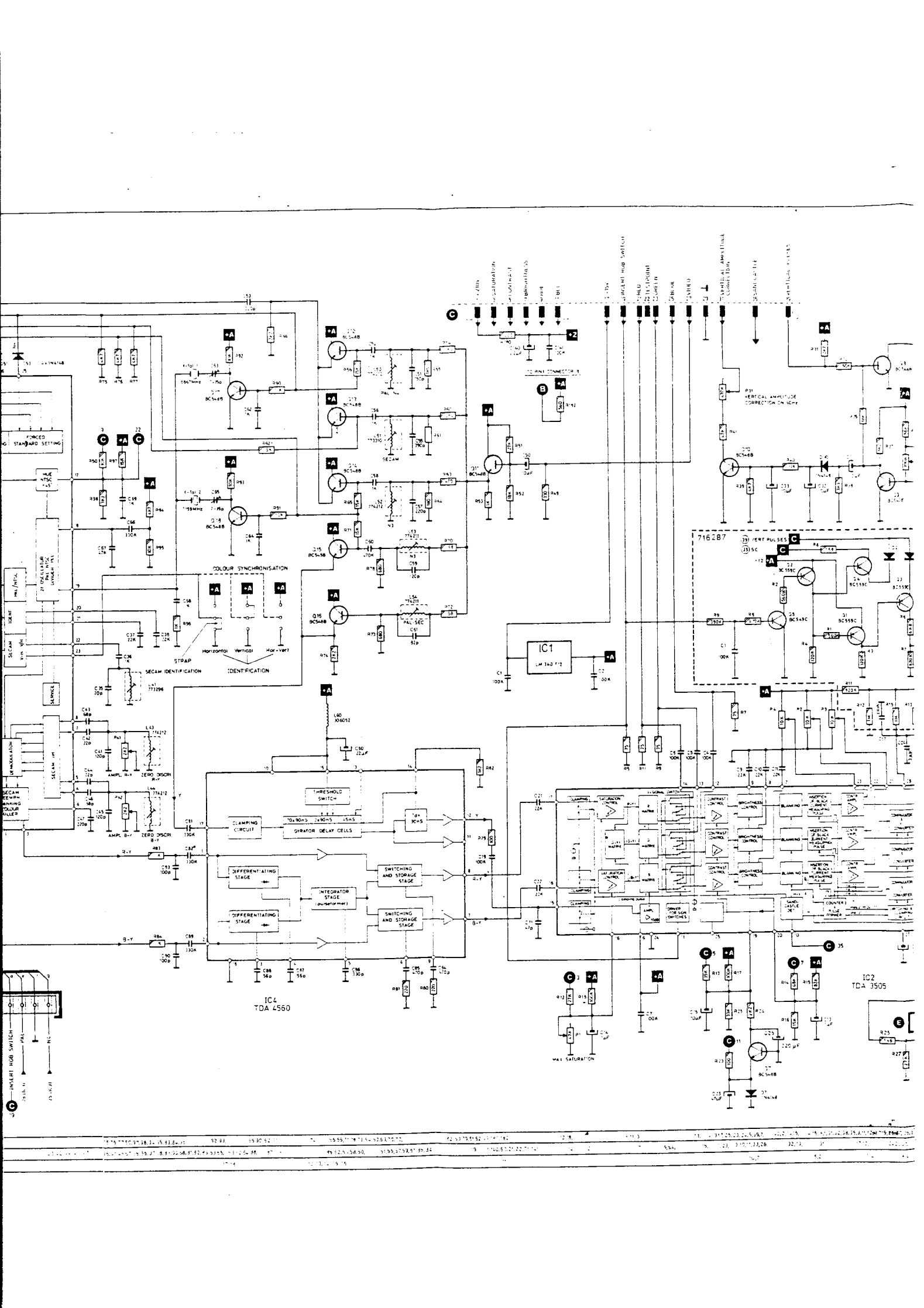
TDA 3505	
1. 5,2V	15. 2,9V
2. 6,7V	16. 3V
3. 5,2V	17. 4,2V
4. 6,6V	18. 4,2V
5. 5,1V	19. 2,7V
6. 12V	20. 1,9V
7. 8V	21. 4,5V
8. 8V	22. 5,5V
9. 7,9V	23. 5,7V
10. 1,5V	24. 0V
11. 0V	25. 5,5V
12. 4,4V	26. 5,5V
13. 4,4V	27. 3,3V
14. 4,4V	28. 6,8V

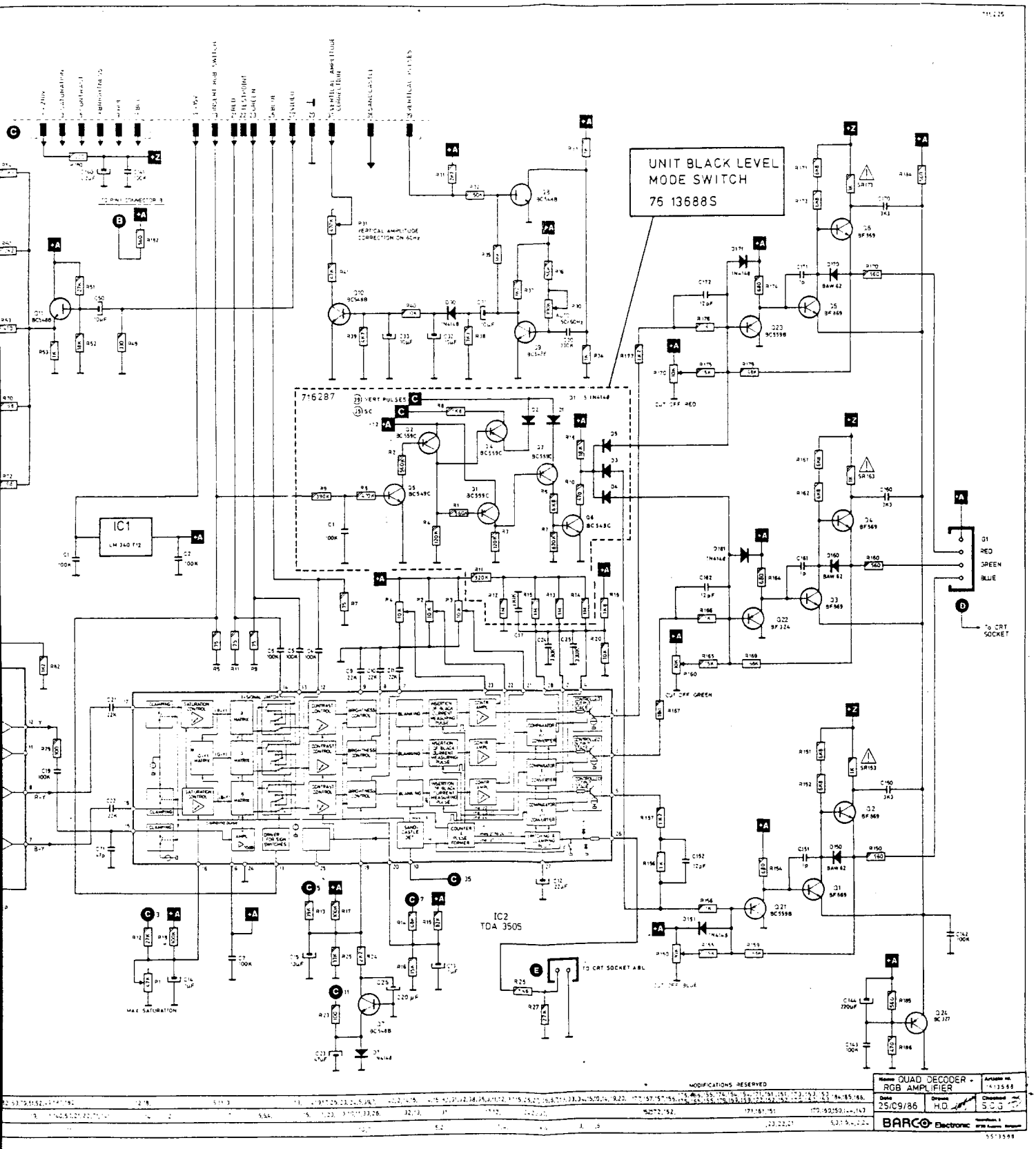
TDA 4560	
1. 4,3V	10. 12V
2. 4,3V	11. 2,5V
3. 3,6V	12. 10,4V
4. 3,6V	13. 1,2V
5. 2,8V	14. 1,4V
6. 5,3V	15. 12V
7. 4,5V	16. 4V
8. 4,5V	17. 2V
9. 5,3V	18. 0V

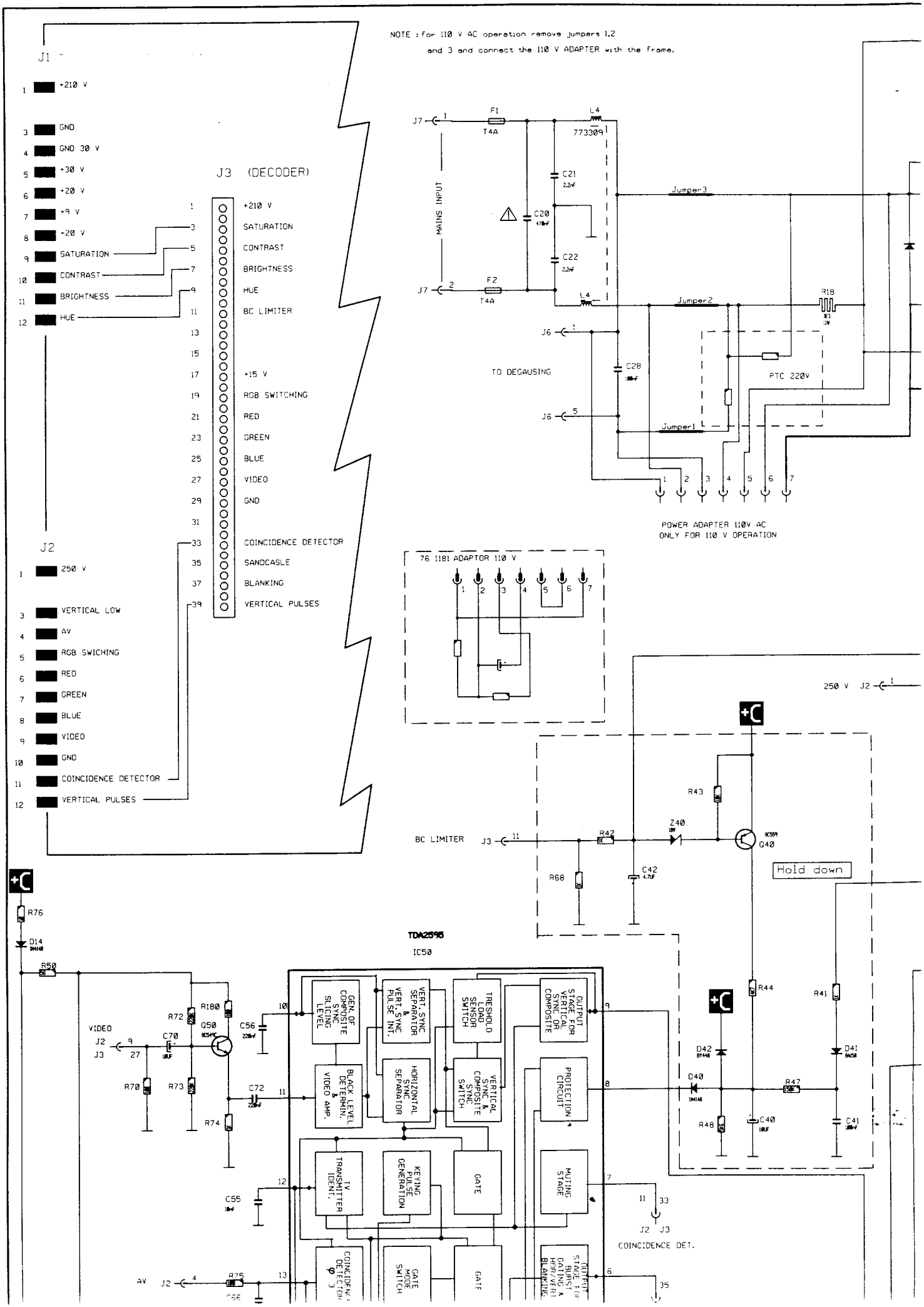

71 6226
18 INSERT RGB SWITCH
21 RED
22 TESTPOINT
23 GREEN
25 BLUE
27 VIDEO
29
31 VERTICAL AMPLITUDE CORRECTION
35 SANDCASTLE
39 VERTICAL PULSES
R30 1K8
R31 2K7
+A
+B
IC 1
LM340T12
C1 100K
C2 100K
R6 1E
R177 1K
R167 1K
R157 1K
R26 5K6
R27 27K
R171 6K8
R172 6K8
R184 560
SR173 196V
C170 3K3
Q6 BF869
137,8V
137,7V
D170 BAW 62
R170 100
R174 680
8,4V
D171 1N4148
Q5 BF869
Q23 BF324
7,6V
7,8V
R179 68K
R161 6K8
R162 6K8
SR163 196V
C160 3K3
Q4 BF869
138,3V
138,2V
D160 BAW 62
R160 100
R164 680
8,4V
D161 1N4148
Q3 BF869
Q22 BF324
7,6V
7,8V
R169 68K
To I SENCE ABL
D
RED
GREEN
BLUE
G1
R151 6K8
R152 6K8
SR153 196V
C150 3K3
Q2 BF869
139,2V
139,1V
D150 BAW 62
R150 100
R154 680
8,4V
D151 1N4148
Q1 BF869
Q21 BF324
7,6V
7,8V
R159 68K
C162 100K
P4 10K
P2 10K
P3 10K
GAIN RED
GAIN GREEN
GAIN BLUE
C6 100K
C5 100K
C4 100K
C9 22K
C10 22K
C11 22K
C17 330K
C24 330K
C25 330K
3-SIGNAL SWITCH
R MATRIX
G MATRIX
B MATRIX
CONTRAST CONTROL
BRIGHTNESS CONTROL
BLANKING
INSERTION OF BLACK CURRENT MEASURING PULSE
CONTR AMPL
COMPARATOR & V/I CONVERTER
CONTROLLED OUTPUT STAGE
Y AMPL
DRIVER FOR SIGN SWITCHES
SAND-CASTLE DET
COUNTER & PULSE FORMER
SWITCHING & CLAMPING CIRCUIT
IC2
TDA 3505
C7 100K
C15 10µF
R13 39K
R17 100K
R25 47K
R24 2K2
2,7V
R23 100
C23 4,7µF
Q7 BC548B
0,3V
D7 1N4148
C14 47K
R15 82K
R16 12K
C13 1µF
C12 33µF
C144 220µF
R185 390
7,8V
Q24 BC 327
7,2V
C143 100K
R186 560
To I SENCE ABL
E
MODIFICATIONS RESERVED
Name Pal decoder + RGB amplifier
Article nr 76 14007
Date 17/11/87
Drawn PG
Checked RDF
BARCO Electronic
Noordlaan 5 8720 Kuurne Belgium
66 14007



76 13688	QUAD DECODER + RGB ABL

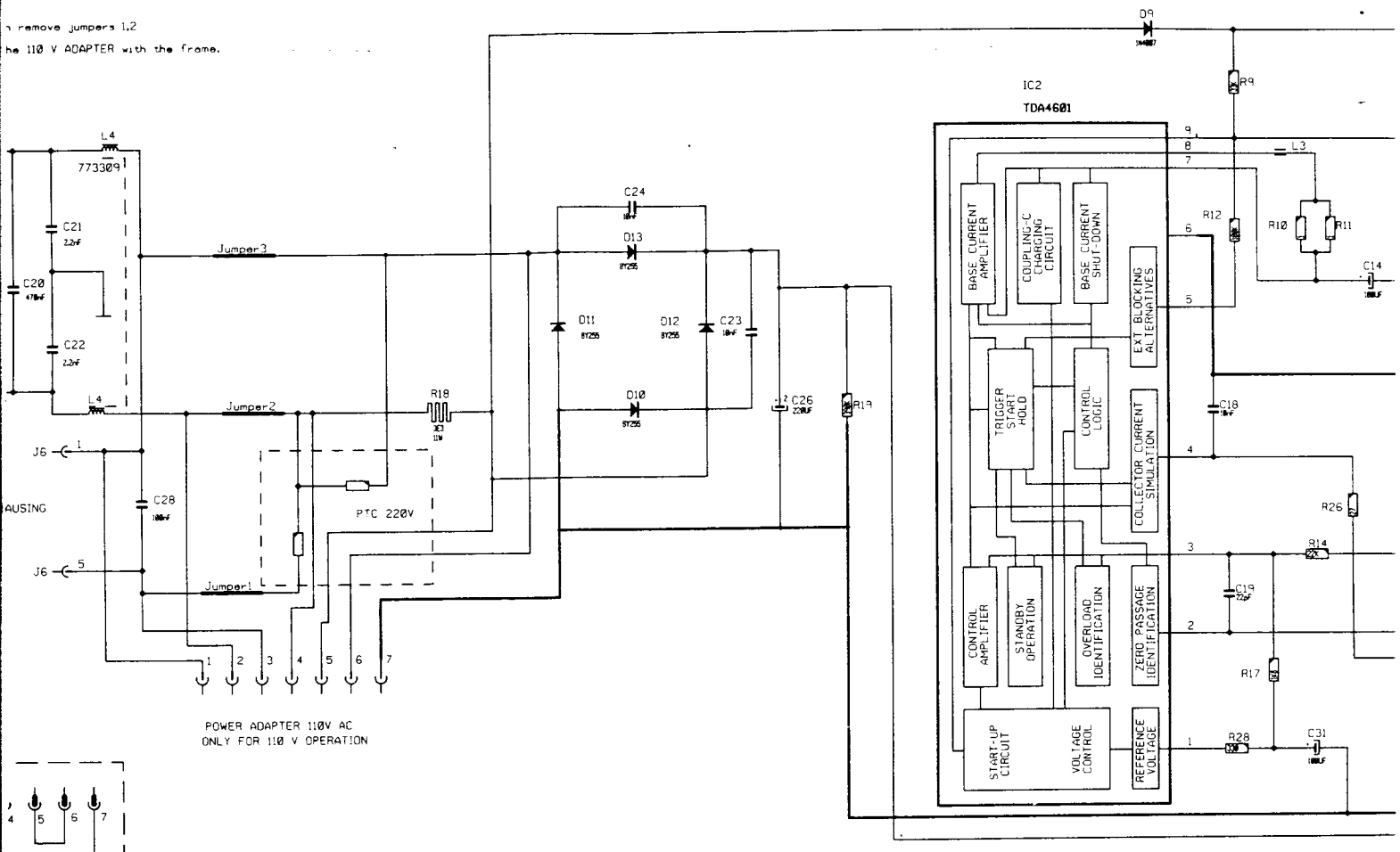

IC4
TDA 4560
IC2
TDA 3505
IC1
716287
COLOUR SYNCHRONISATION
SECAM IDENTIFICATION
IDENTIFICATION
STRAP
Horizontal
Vertical
Hor+Vert
THRESHOLD SWITCH
CLAMPING CIRCUIT
GYRATOR DELAY CELLS
DIFFERENTIATING STAGE
INTEGRATOR STAGE
SWITCHING AND STORAGE STAGE
INSERT HUB SWITCH
PAL
NC
FORCED STANDARD SETTING
VERT PULSES
SC
VERTICAL AMPLITUDE CORRECTION
MAX SATURATION

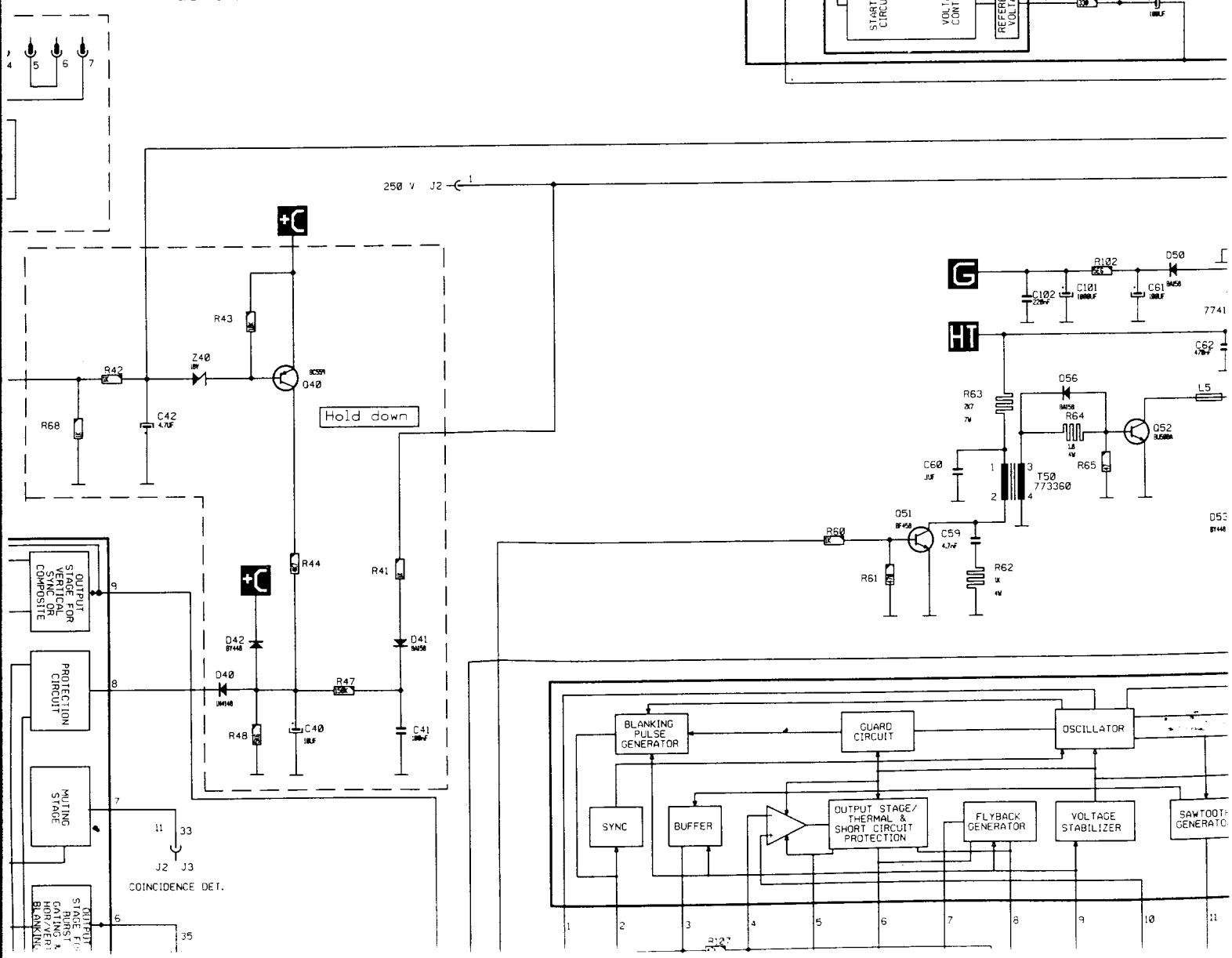

UNIT BLACK LEVEL
MODE SWITCH
75 13688S
716287
IC1
LM 340 T12
IC2
TDA 3505
To CRT SOCKET
To CRT SOCKET ABL
MAX SATURATION
CUT OFF RED
CUT OFF GREEN
CUT OFF BLUE
RED
GREEN
BLUE
QUAD DECODER + RGB AMPLIFIER
25/09/86
H.O
S.C.G
BARCO Electronic

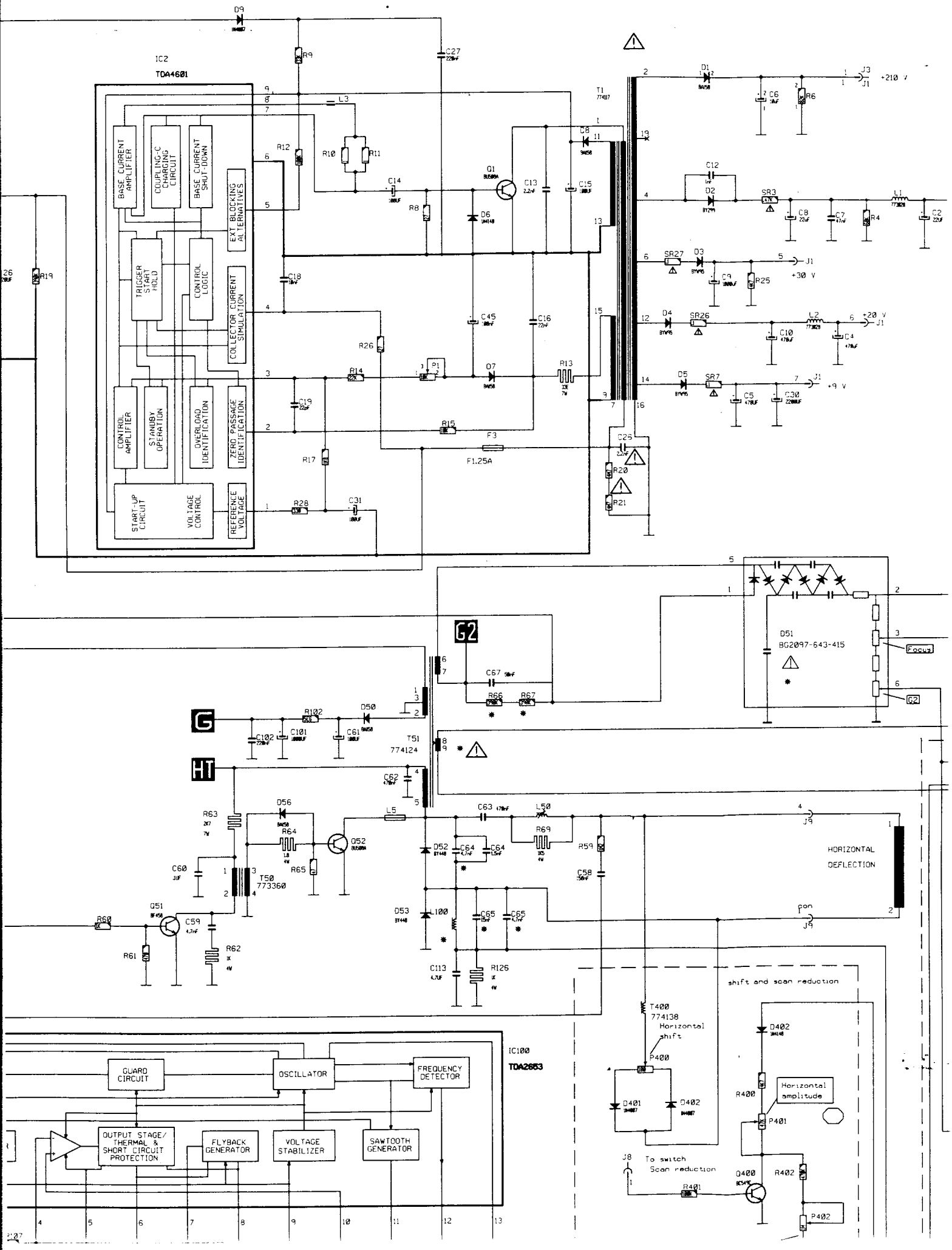

J1
1 +210 V
3 GND
4 GND 30 V
5 +30 V
6 +20 V
7 +9 V
8 -20 V
9 SATURATION
10 CONTRAST
11 BRIGHTNESS
12 HUE
J3 (DECODER)
1 +210 V
3 SATURATION
5 CONTRAST
7 BRIGHTNESS
9 HUE
11 BC LIMITER
13
15
17 +15 V
19 RGB SWITCHING
21 RED
23 GREEN
25 BLUE
27 VIDEO
29 GND
31
33 COINCIDENCE DETECTOR
35 SANDCASLE
37 BLANKING
39 VERTICAL PULSES
J2
1 250 V
3 VERTICAL LOW
4 AV
5 RGB SWICHING
6 RED
7 GREEN
8 BLUE
9 VIDEO
10 GND
11 COINCIDENCE DETECTOR
12 VERTICAL PULSES
NOTE : for 110 V AC operation remove jumpers 1,2
and 3 and connect the 110 V ADAPTER with the frame.
J7 1
F1
T4A
L4
773309
MAINS INPUT
C21
C20
C22
J7 2
F2
T4A
L4
Jumper3
Jumper2
R18
J6 1
C28
TO DEGAUSING
PTC 220V
J6 5
Jumper1
1 2 3 4 5 6 7
POWER ADAPTER 110V AC
ONLY FOR 110 V OPERATION
76 1181 ADAPTOR 110 V
1 2 3 4 5 6 7
250 V J2 1
+C
R43
Z40
18V
BC559
Q40
BC LIMITER J3 11
R42
R68
C42
4.7UF
Hold down
TDA2595
IC50
R76
D14
1N4148
R50
R180
R72
Q50
BC547
C56
VIDEO
J2
J3
9
27
C70
10UF
R70
R73
C72
R74
C55
10nF
AV J2 4
R75
13
C66
10
GEN. OF COMPOSITE BLANKING SLICING LEVEL
VERT. SYNC SEPARATOR
VERT. SYNC PULSE INT.
TRESHOLD LOAD SENSOR SWITCH
OUTPUT STAGE FOR VERTICAL SYNC OR COMPOSITE
9
BLACK LEVEL DETERMIN. VIDEO & AMP.
HORIZONTAL SYNC SEPARATOR
VERTICAL SYNC & COMPOSITE SYNC SWITCH
PROTECTION CIRCUIT
8
TV TRANSMITTER IDENT.
KEYING PULSE GENERATION
GATE
MUTING STAGE
7
11 33
J2 J3
COINCIDENCE DET.
COINCIDENCE DETECTION
GATE MODE SWITCH
GATE
OUTPUT STAGE FOR BURST GATING & HOR/VERT BLANKING
6
35
R44
R41
D42
BY448
D41
BA158
D40
1N4148
R47
150K
R48
C40
10UF
C41

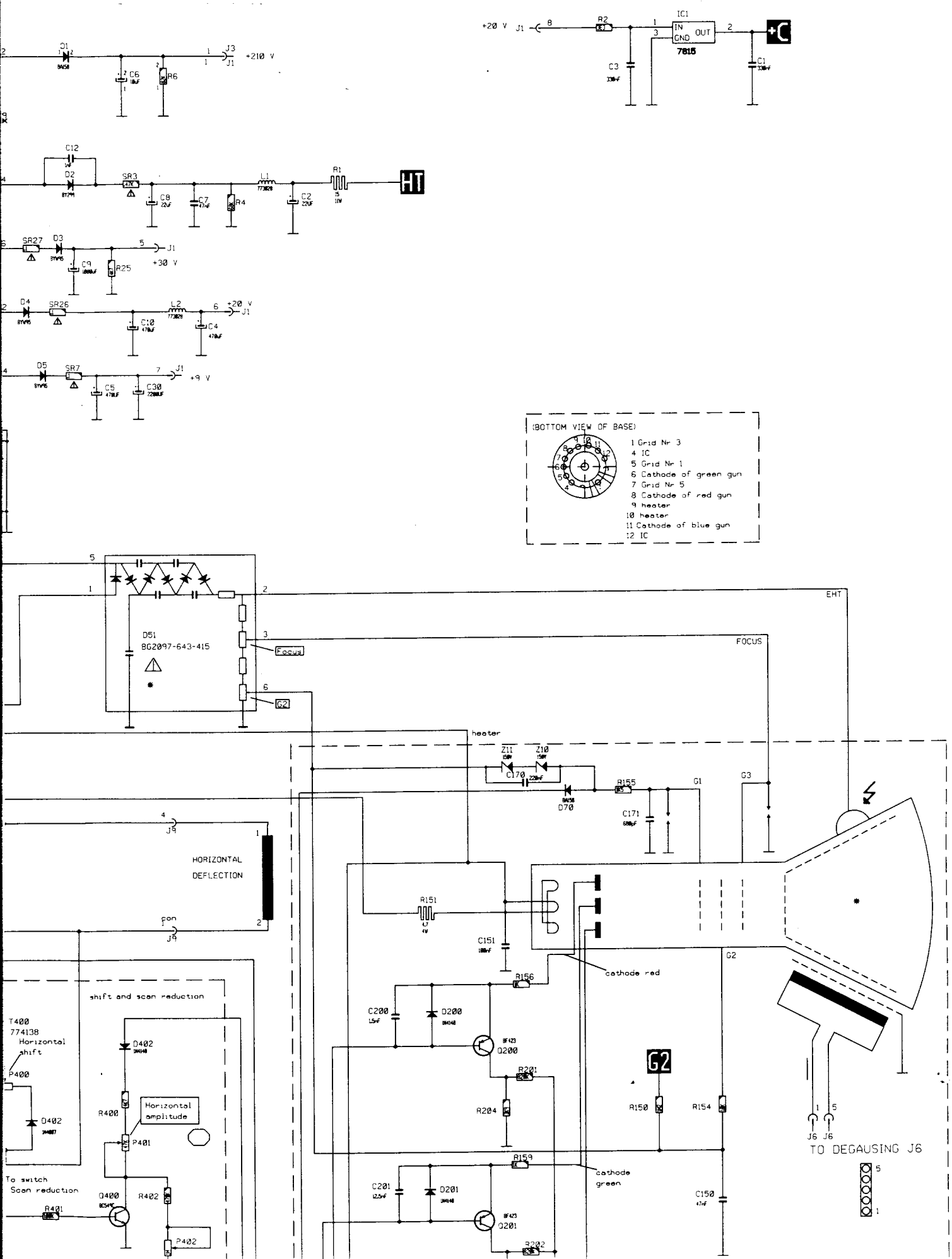
remove jumpers 1,2

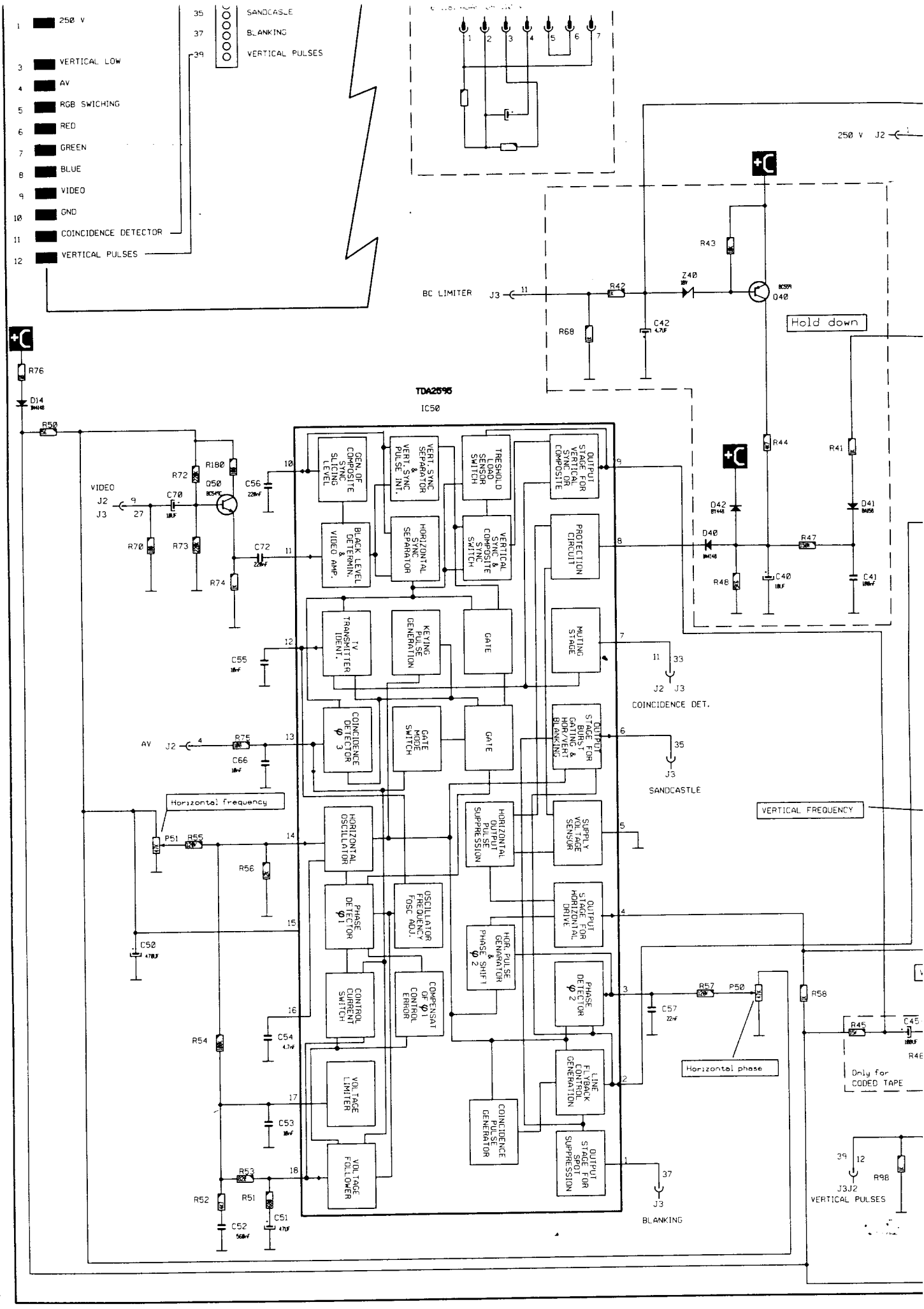
he 110 V ADAPTER with the frame.

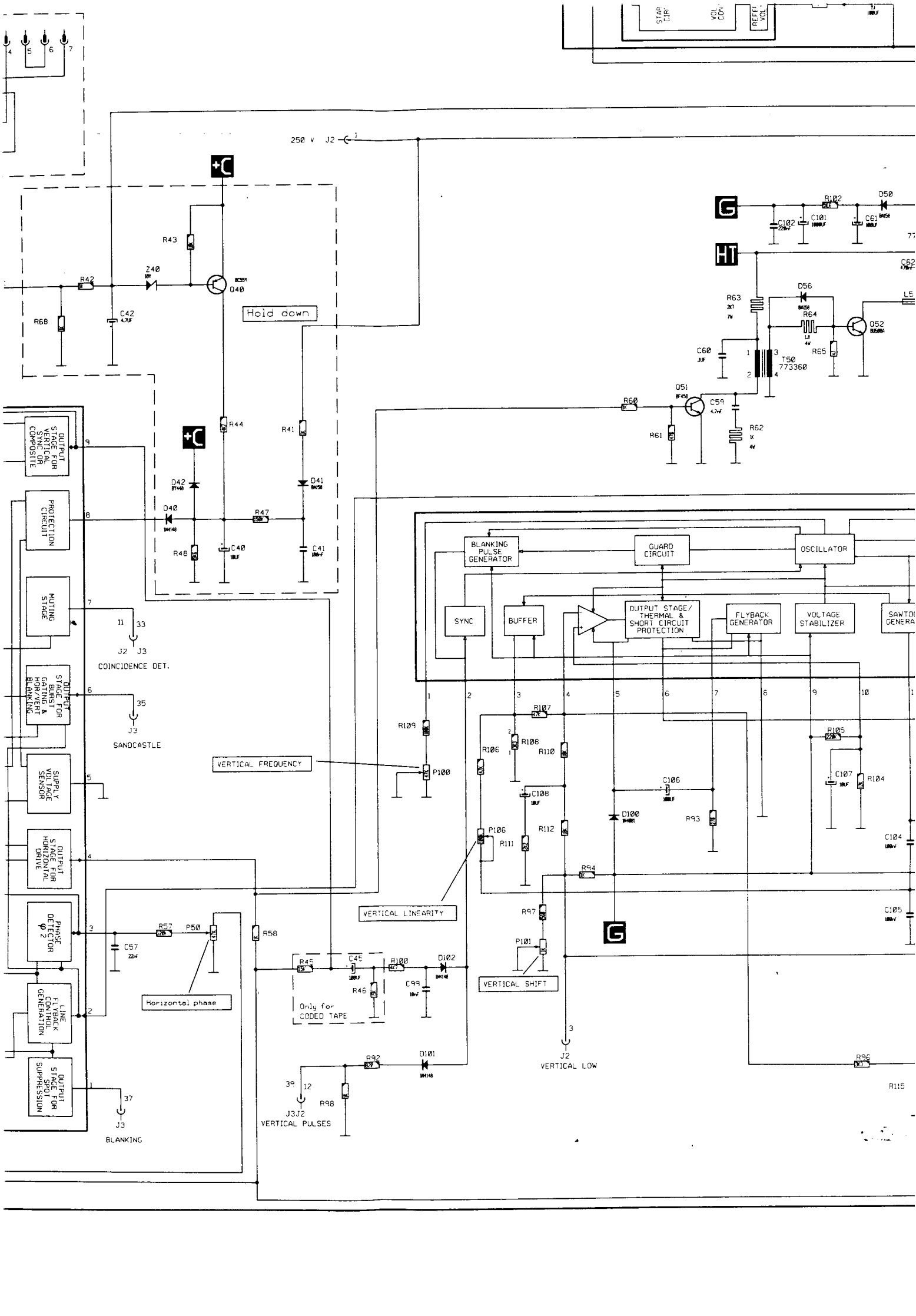


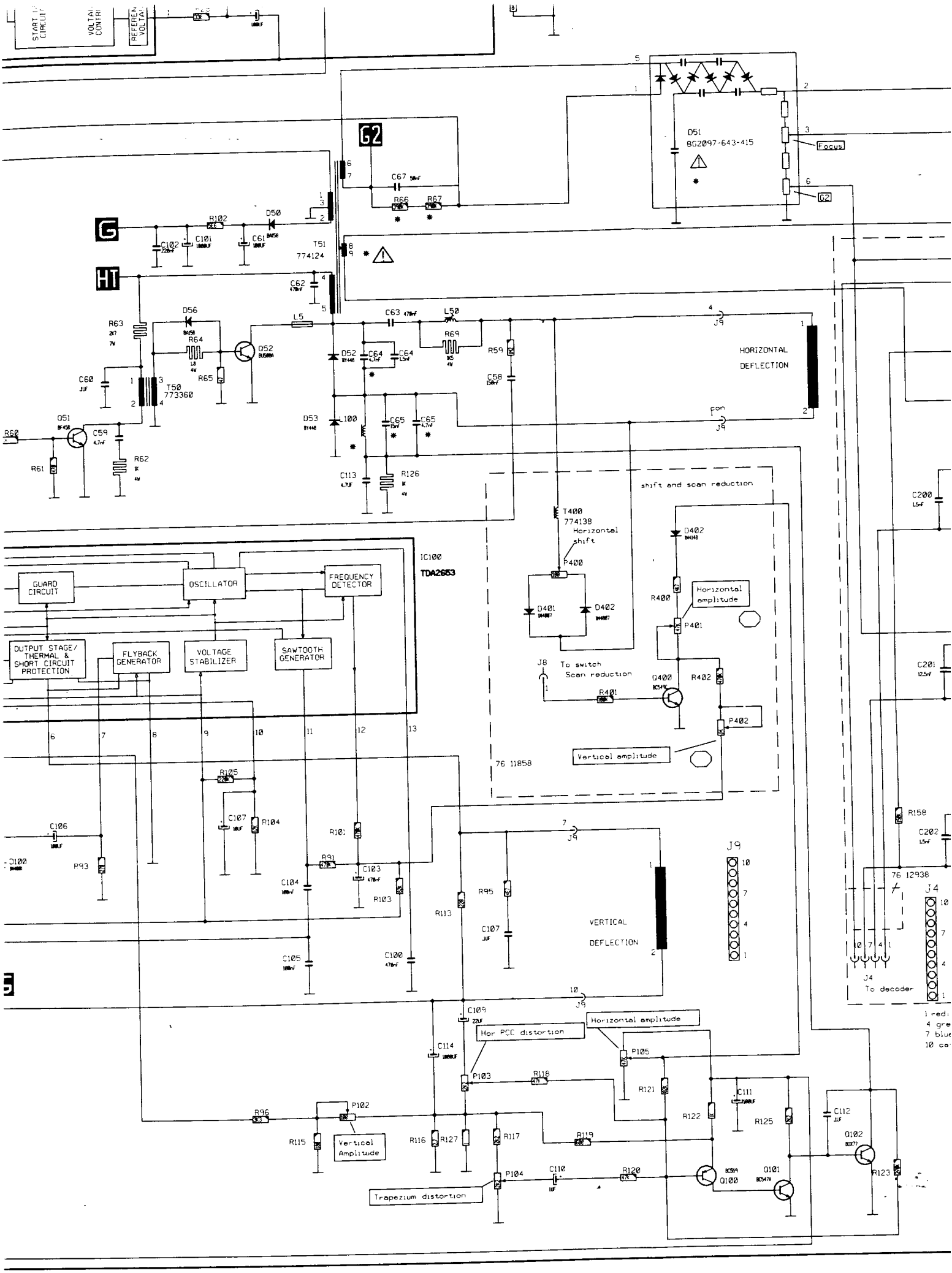


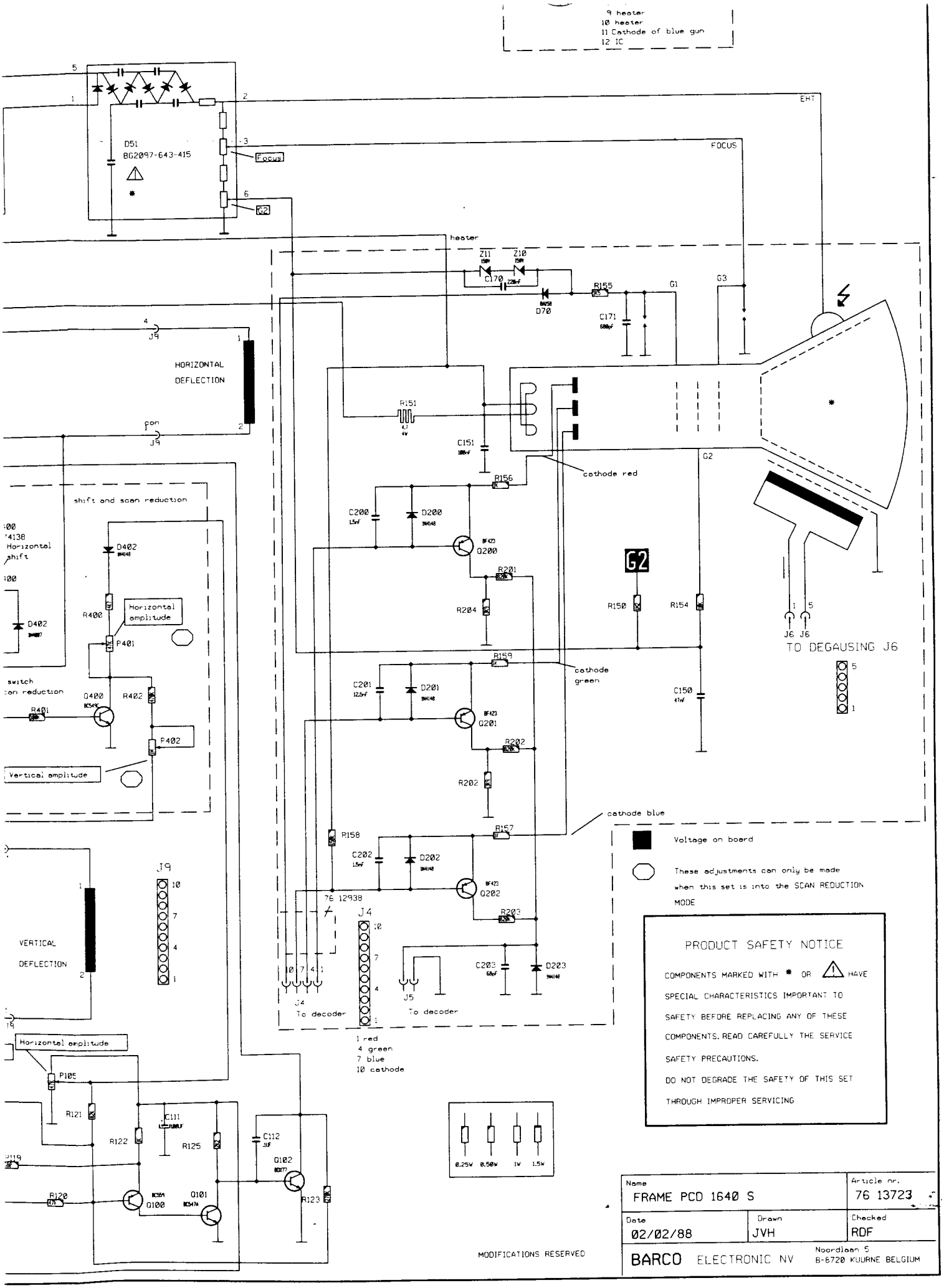

IC2
TDA4601
BASE CURRENT AMPLIFIER
COUPLING-C CHARGING CIRCUIT
BASE CURRENT SHUT-DOWN
EXT BLOCKING ALTERNATIVES
TRIGGER START HOLD
CONTROL LOGIC
COLLECTOR CURRENT SIMULATION
CONTROL AMPLIFIER
STANDBY OPERATION
OVERLOAD IDENTIFICATION
ZERO PASSAGE IDENTIFICATION
START-UP CIRCUIT
VOLTAGE CONTROL
REFERENCE VOLTAGE
+210 V
+30 V
+20 V
+9 V
F1.25A
D51
BG2097-643-415
Focus
G2
G
HT
T51
774124
T50
773360
HORIZONTAL DEFLECTION
IC100
TDA2653
GUARD CIRCUIT
OSCILLATOR
FREQUENCY DETECTOR
OUTPUT STAGE/ THERMAL & SHORT CIRCUIT PROTECTION
FLYBACK GENERATOR
VOLTAGE STABILIZER
SAWTOOTH GENERATOR
shift and scan reduction
T400
774138
Horizontal shift
Horizontal amplitude
To switch Scan reduction

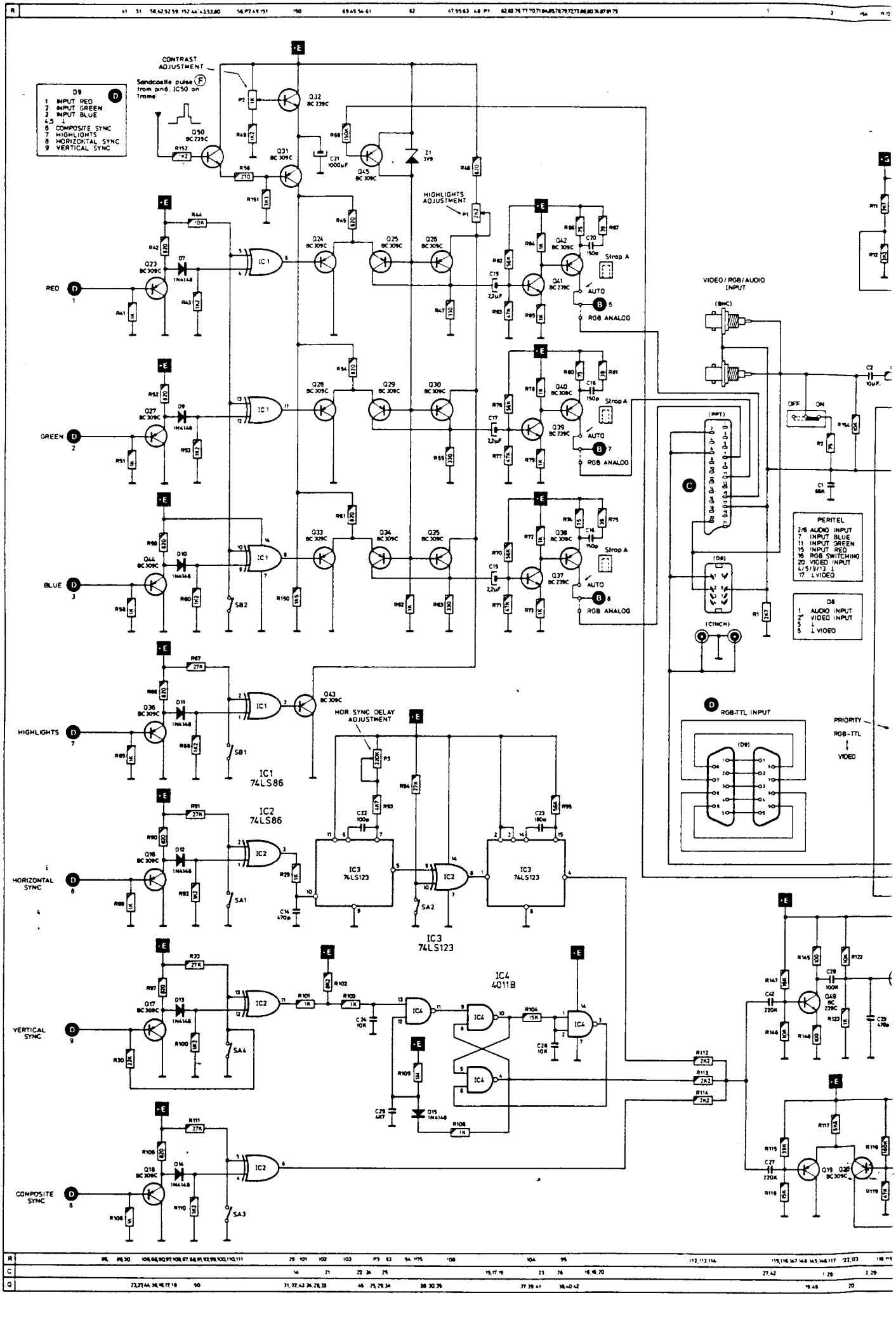

+20 V
IC1
IN
GND
OUT
7815
+C
+210 V
HT
+30 V
+20 V
+9 V
(BOTTOM VIEW OF BASE)
1 Grid Nr 3
4 IC
5 Grid Nr 1
6 Cathode of green gun
7 Grid Nr 5
8 Cathode of red gun
9 heater
10 heater
11 Cathode of blue gun
12 IC
D51
BG2097-643-415
Focus
G2
EHT
FOCUS
heater
HORIZONTAL
DEFLECTION
shift and scan reduction
T400
774138
Horizontal
shift
P400
Horizontal
amplitude
P401
P402
To switch
Scan reduction
cathode red
cathode
green
G1
G3
G2
TO DEGAUSING J6

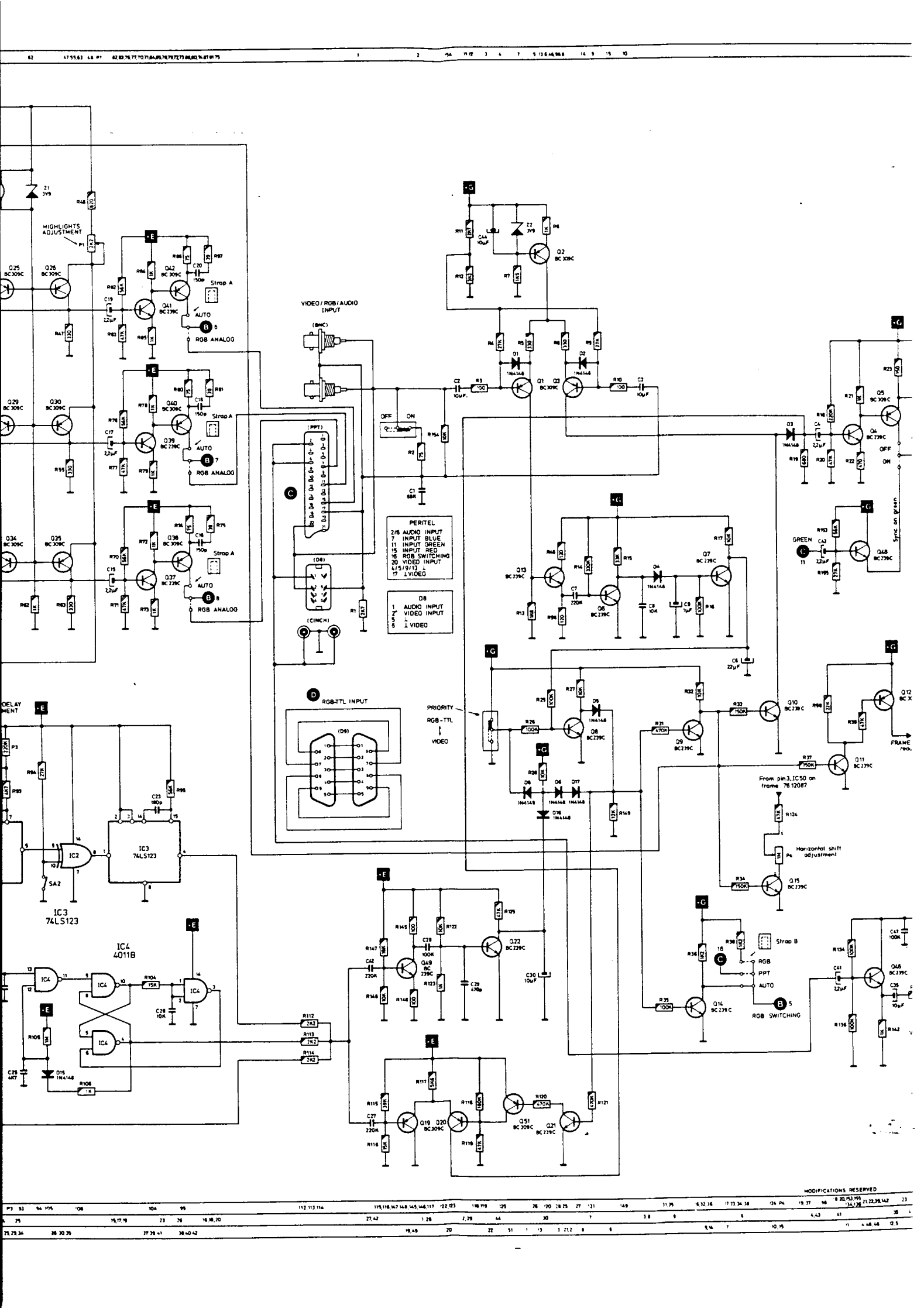

250 V
VERTICAL LOW
AV
RGB SWICHING
RED
GREEN
BLUE
VIDEO
GND
COINCIDENCE DETECTOR
VERTICAL PULSES
SANDCASLE
BLANKING
VERTICAL PULSES
250 V J2
BC LIMITER J3
R43
Z40
R42
D40
R68
C42
Hold down
TDA2595
IC50
R76
D14
R50
VIDEO
J2 J3
R72
R180
Q50
C56
C70
R70
R73
C72
R74
GEN. OF COMPOSITE SYNC SLICING LEVEL
VERT. SYNC SEPARATOR & VERT. SYNC PULSE INT.
TRESHOLD LOAD SENSOR SWITCH
OUTPUT STAGE FOR VERTICAL SYNC OR COMPOSITE
BLACK LEVEL DETERMIN. & VIDEO AMP.
HORIZONTAL SYNC SEPARATOR
VERTICAL SYNC & COMPOSITE SYNC SWITCH
PROTECTION CIRCUIT
TV TRANSMITTER IDENT.
KEYING PULSE GENERATION
GATE
MUTING STAGE
C55
COINCIDENCE DETECTOR ϕ 3
GATE FOR MODE SWITCH
GATE
OUTPUT STAGE FOR BURST GATING & HOR/VERT BLANKING
AV J2
R75
C66
COINCIDENCE DET.
SANDCASTLE
Horizontal frequency
VERTICAL FREQUENCY
HORIZONTAL OSCILLATOR
P51
R55
R56
HORIZONTAL OUTPUT PULSE SUPPRESSION
SUPPLY VOLTAGE SENSOR
PHASE DETECTOR ϕ 1
OSCILLATOR FREQUENCY FOSC ADJ.
C50
HOR PULSE GENERATION PHASE SHIFT ϕ 2
OUTPUT STAGE FOR HORIZONTAL DRIVE
CONTROL CURRENT SWITCH
COMPENSAT OF ϕ 1 CONTROL ERROR
PHASE DETECTOR ϕ 2
R57
P50
R58
C57
R54
C54
VOLTAGE LIMITER
LINE FLYBACK CONTROL GENERATION
Horizontal phase
C53
COINCIDENCE PULSE GENERATOR
OUTPUT STAGE FOR SPOT SUPPRESSION
R53
R52
R51
C52
C51
BLANKING
R44
R41
D42
D41
D40
R47
R48
C40
C41
R45
C45
R46
Only for CODED TAPE
R98
VERTICAL PULSES

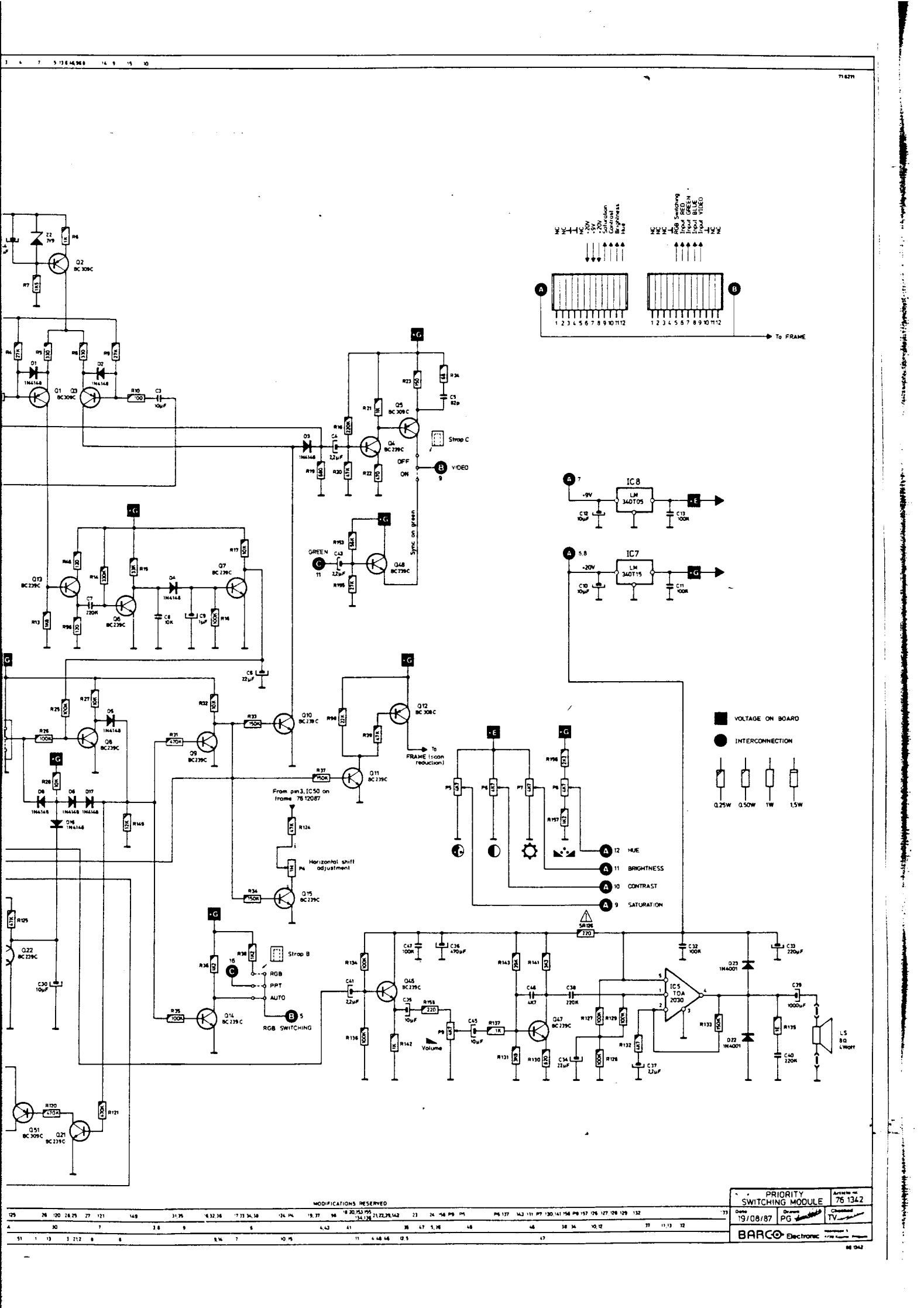

250 V
J2
Hold down
R43
R42
Z40
Q40
R68
C42
R44
R41
D42
D41
D40
R47
R48
C40
C41
OUTPUT STAGE FOR VERTICAL SYNC OR COMPOSITE
PROTECTION CIRCUIT
MUTING STAGE
OUTPUT STAGE FOR BURST & HOR/VERT BLANKING
SUPPLY VOLTAGE SENSOR
OUTPUT STAGE FOR HORIZONTAL DRIVE
PHASE DETECTOR φ2
LINE FLYBACK CONTROL GENERATION
OUTPUT STAGE FOR SPOT SUPPRESSION
COINCIDENCE DET.
J2 J3
SANDCASTLE
J3
BLANKING
VERTICAL FREQUENCY
P100
R109
R107
R106
R108
R110
C108
P106
R111
R112
C106
D100
R93
R105
C107
R104
C104
R94
R97
P101
VERTICAL SHIFT
VERTICAL LINEARITY
R57
P50
C57
R58
Horizontal phase
R45
C45
R100
D102
C99
R46
Only for CODED TAPE
R92
D101
R98
J3J2
VERTICAL PULSES
J2
VERTICAL LOW
R96
R115
BLANKING PULSE GENERATOR
GUARD CIRCUIT
OSCILLATOR
SYNC
BUFFER
OUTPUT STAGE/ THERMAL & SHORT CIRCUIT PROTECTION
FLYBACK GENERATOR
VOLTAGE STABILIZER
R102
D50
C102
C101
C61
HT
D56
R63
R64
Q52
C60
R65
T50
773360
Q51
C59
R60
R61
R62


G2
HT
D51
BG2097-643-415
Focus
G2
T51
774124
D50
R102
C102
C101
C61
C62
D56
R63
R64
Q52
L5
C63
L50
R69
D52
C64
R59
C58
T50
773360
R65
C60
HORIZONTAL
DEFLECTION
J9
Q51
C59
R60
R61
R62
D53
L100
C65
C113
R126
shift and scan reduction
T400
774138
Horizontal
shift
P400
D401
D402
R400
Horizontal
amplitude
P401
J8
To switch
Scan reduction
Q400
R402
R401
P402
Vertical amplitude
76 11858
IC100
TDA2653
GUARD
CIRCUIT
OSCILLATOR
FREQUENCY
DETECTOR
OUTPUT STAGE/
THERMAL &
SHORT CIRCUIT
PROTECTION
FLYBACK
GENERATOR
VOLTAGE
STABILIZER
SAWTOOTH
GENERATOR
R105
C107
R104
C106
R93
R101
R91
C103
C104
R103
C105
C100
R113
R95
C107
VERTICAL
DEFLECTION
J9
C109
Hor PCC distortion
Horizontal amplitude
C114
P105
P103
R118
R121
R122
C111
R125
C112
Q102
R123
R96
P102
R115
Vertical
Amplitude
R116
R127
R117
R119
P104
C110
R120
Q100
Q101
Trapezium distortion
C200
C201
R158
C202
76 12938
J4
To decoder


9 heater
10 heater
11 Cathode of blue gun
12 IC
EHT
FOCUS
D51
BG2097-643-415
Focus
G2
heater
Z11
Z10
C170
R155
D70
G1
G3
C171
HORIZONTAL
DEFLECTION
J9
R151
C151
R156
cathode red
G2
shift and scan reduction
C200
D200
Q200
R201
R204
R150
R154
J6 J6
TO DEGAUSING J6
D402
R400
Horizontal amplitude
P401
R159
cathode green
C201
D201
Q201
C150
switch
R401
Q400
R402
P402
Vertical amplitude
R202
R158
R157
cathode blue
C202
D202
Q202
R203
J9
VERTICAL
DEFLECTION
76 12938
J4
C203
D203
J5
J4
To decoder
J5
To decoder
1 red
4 green
7 blue
10 cathode
Horizontal amplitude
P105
R121
C111
R122
R125
C112
Q102
R120
Q100
Q101
R123
0.25W
0.50W
1W
1.5W
Voltage on board
These adjustments can only be made when this set is into the SCAN REDUCTION MODE
PRODUCT SAFETY NOTICE
COMPONENTS MARKED WITH * OR ⚠ HAVE SPECIAL CHARACTERISTICS IMPORTANT TO SAFETY BEFORE REPLACING ANY OF THESE COMPONENTS. READ CAREFULLY THE SERVICE SAFETY PRECAUTIONS.
DO NOT DEGRADE THE SAFETY OF THIS SET THROUGH IMPROPER SERVICING
MODIFICATIONS RESERVED
Name
FRAME PCD 1640 S
Article nr.
76 13723
Date
02/02/88
Drawn
JVH
Checked
RDF
BARCO ELECTRONIC NV
Noordlaan 5
B-8720 KUURNE BELGIUM


CONTRAST ADJUSTMENT
Sandcastle pulse from pin6, IC50 on Trame
D9
1 INPUT RED
2 INPUT GREEN
3 INPUT BLUE
4,5 ⊥
6 COMPOSITE SYNC
7 HIGHLIGHTS
8 HORIZONTAL SYNC
9 VERTICAL SYNC
HIGHLIGHTS ADJUSTMENT
RED
GREEN
BLUE
HIGHLIGHTS
HORIZONTAL SYNC
VERTICAL SYNC
COMPOSITE SYNC
HOR SYNC DELAY ADJUSTMENT
IC1 74LS86
IC2 74LS86
IC3 74LS123
IC4 4011B
Strap A
AUTO
RGB ANALOG
VIDEO / RGB / AUDIO INPUT
(BNC)
(PPT)
(D8)
(CINCH)
PERITEL
2/6 AUDIO INPUT
7 INPUT BLUE
11 INPUT GREEN
15 INPUT RED
16 RGB SWITCHING
20 VIDEO INPUT
4/5/9/13 ⊥
17 ⊥ VIDEO
D8
1 AUDIO INPUT
2 VIDEO INPUT
3 ⊥
6 ⊥ VIDEO
RGB-TTL INPUT
PRIORITY
RGB-TTL
VIDEO


VIDEO / RGB / AUDIO INPUT
(BNC)
(PPT)
(D8)
(CINCH)
PERITEL
2/6 AUDIO INPUT
7 INPUT BLUE
11 INPUT GREEN
15 INPUT RED
16 RGB SWITCHING
20 VIDEO INPUT
4/5/9/13 ⊥
17 ⊥VIDEO
D8
1 AUDIO INPUT
3 VIDEO INPUT
5 ⊥
8 ⊥ VIDEO
RGB-TTL INPUT
(D9)
PRIORITY
RGB-TTL
VIDEO
HIGHLIGHTS ADJUSTMENT
Strap A
AUTO
RGB ANALOG
Strap B
RGB
PPT
RGB SWITCHING
GREEN
Sync on green
FRAME
From pin 3, IC50 on frame 78.12087
Horizontal shift adjustment
IC3 74LS123
IC4 4011B
SA2
OFF
ON



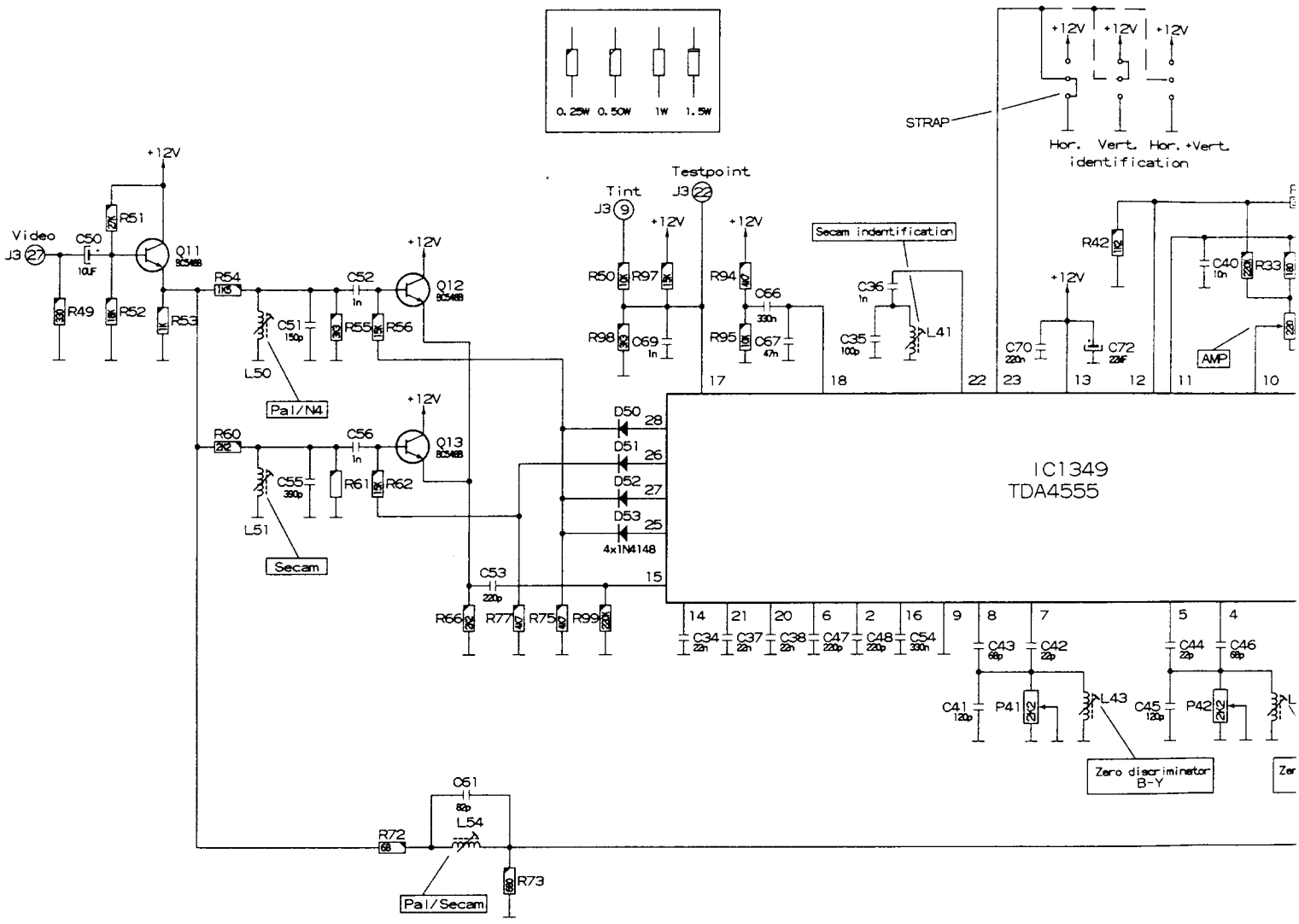
MODIFICATIONS RESERVED

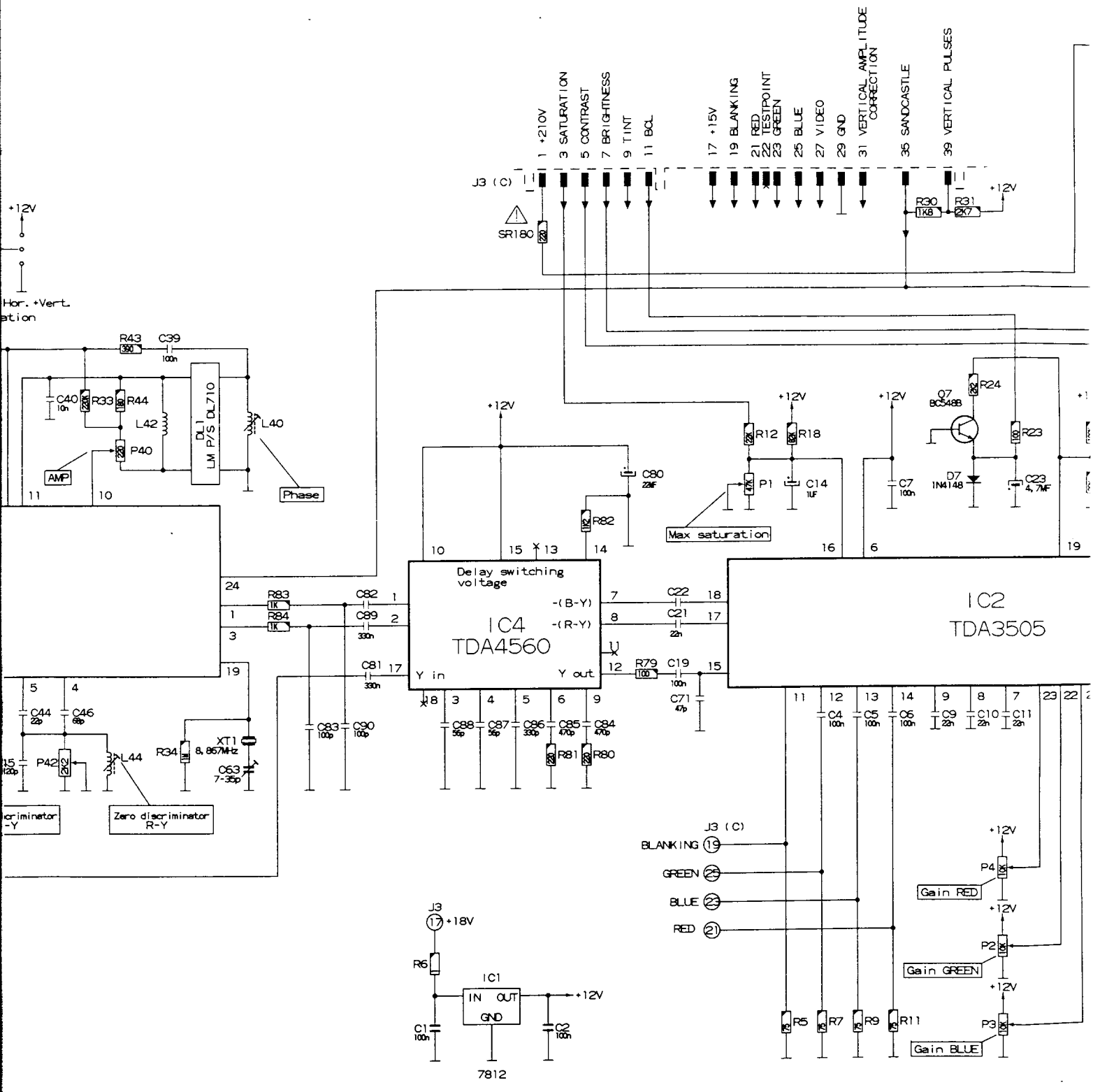
PRIORITY SWITCHING MODULE	Article No. 76 1342
Date 19/08/87	Drawn PG
	Checked TV

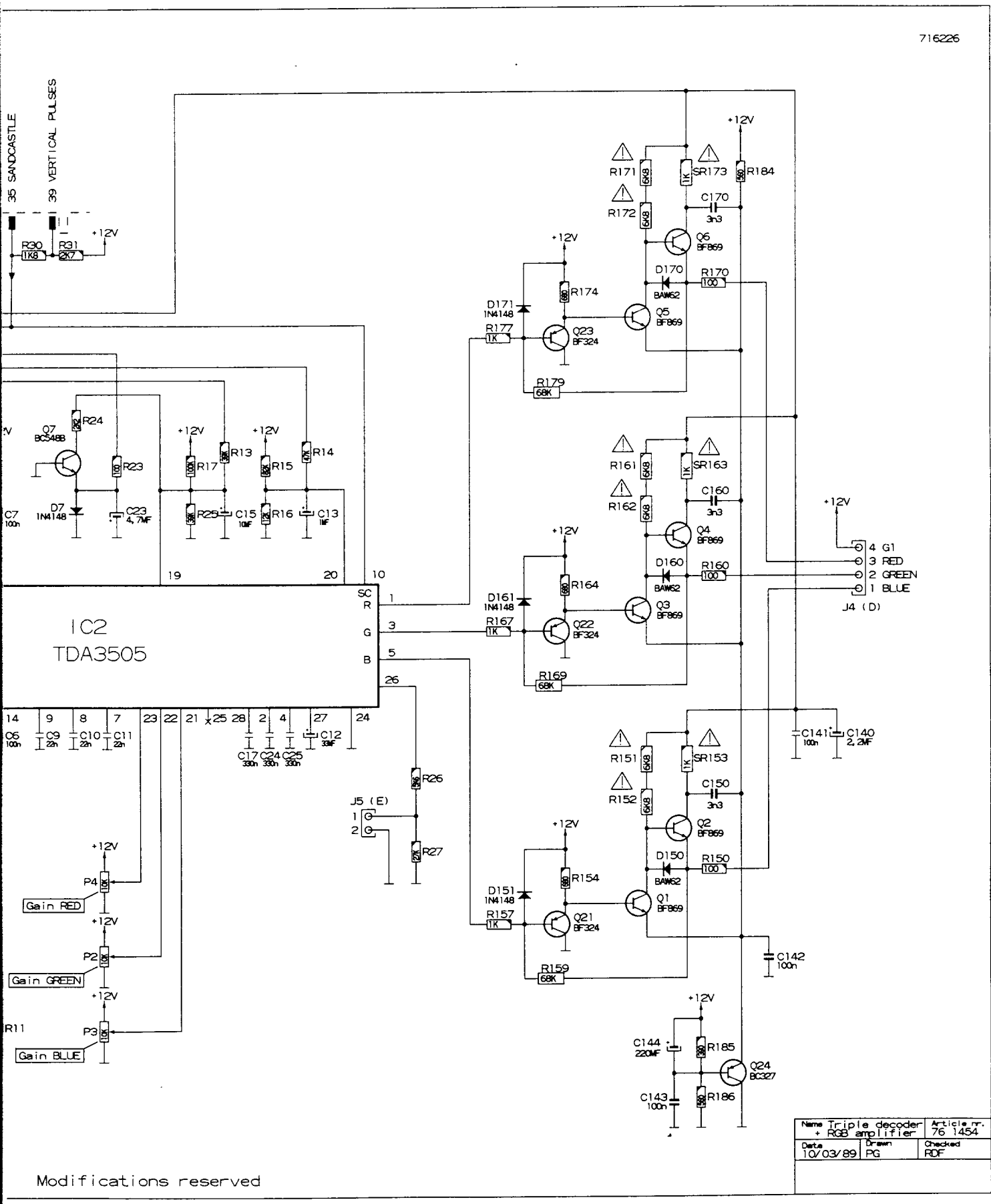
BARCO Electronic

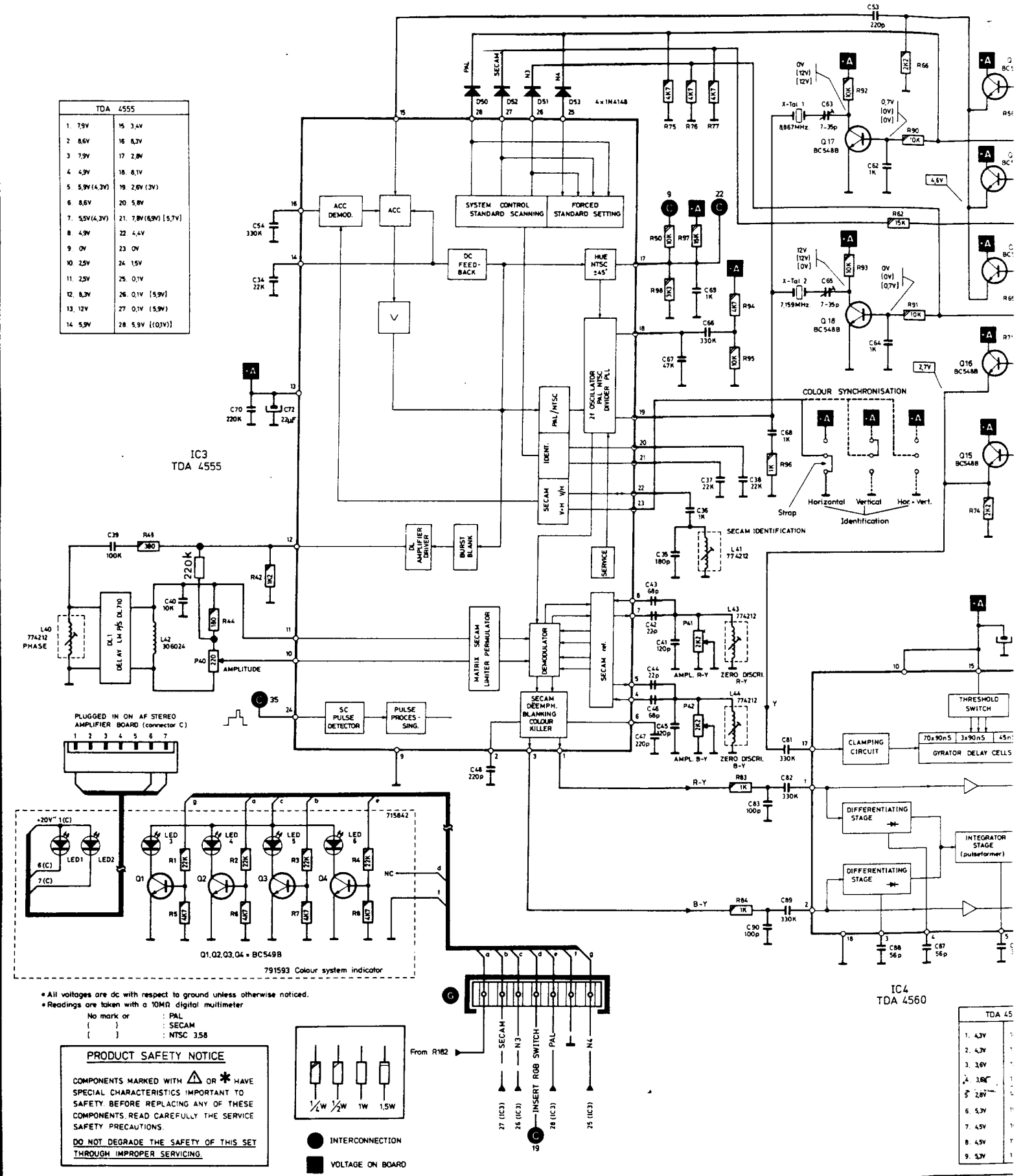
PRODUCT SAFETY NOTICE

COMPONENTS MARKED WITH * OR ⚠ HAVE SPECIAL CHARACTERISTICS IMPORTANT TO SAFETY BEFORE REPLACING ANY OF THESE COMPONENTS. READ CAREFULLY THE SERVICE SAFETY PRECAUTIONS.
DO NOT DEGRADE THE SAFETY OF THIS SET THROUGH IMPROPER SERVICING




J3 (C)
1 +210V
3 SATURATION
5 CONTRAST
7 BRIGHTNESS
9 TINT
11 BCL
17 +15V
19 BLANKING
21 RED
22 TESTPOINT
23 GREEN
25 BLUE
27 VIDEO
29 GND
31 VERTICAL AMPLITUDE CORRECTION
35 SANDCASTLE
39 VERTICAL PULSES
+12V
R30
R31
SR180
Hor. +Vert.
R43
C39
C40
R33
R44
L42
DL1
LM P/S DL710
L40
P40
AMP
Phase
R12
R18
P1
C14
C80
R82
Max saturation
Q7
BC548B
R24
R23
D7
1N4148
C23
C7
Delay switching voltage
IC4
TDA4560
-(B-Y)
-(R-Y)
Y in
Y out
IC2
TDA3505
R83
R84
C82
C89
C81
C22
C21
R79
C19
C71
C44
C46
P42
L44
R34
XT1
8,867MHz
C63
7-35p
C83
C90
C88
C87
C86
C85
C84
R81
R80
Zero discriminator R-Y
C4
C5
C6
C9
C10
C11
BLANKING
GREEN
BLUE
RED
P4
Gain RED
P2
Gain GREEN
P3
Gain BLUE
R5
R7
R9
R11
J3
+18V
R6
IC1
IN OUT
GND
C1
C2
7812


716226
35 SANDCASTLE
39 VERTICAL PULSES
+12V
R30 1K8
R31 2K7
IC2
TDA3505
19
20
10
SC
R
G
B
1
3
5
26
14
9
8
7
23
22
21
25
28
2
4
27
24
C6 100n
C9 22n
C10 22n
C11 22n
C17 330n
C24 330n
C25 330n
C12 33MF
R26
R27
J5 (E)
1
2
P4 10K
Gain RED
P2 10K
Gain GREEN
P3 10K
Gain BLUE
R11
Q7 BC548B
R24 2K2
R23 100
D7 1N4148
C23 4,7MF
R13 39K
R17 100K
R25 39K
C15 10MF
R15 82K
R16 12K
R14 47K
C13 1MF
C7 100n
R171 6K8
R172 6K8
SR173 1K
R184 560
C170 3n3
Q6 BF869
D170 BAW62
R170 100
R174 680
D171 1N4148
R177 1K
Q23 BF324
Q5 BF869
R179 68K
R161 6K8
R162 6K8
SR163 1K
C160 3n3
Q4 BF869
D160 BAW62
R160 100
R164 680
D161 1N4148
R167 1K
Q22 BF324
Q3 BF869
R169 68K
4 G1
3 RED
2 GREEN
1 BLUE
J4 (D)
R151 6K8
R152 6K8
SR153 1K
C150 3n3
Q2 BF869
D150 BAW62
R150 100
R154 680
D151 1N4148
R157 1K
Q21 BF324
Q1 BF869
R159 68K
C141 100n
C140 2,2MF
C142 100n
C144 220MF
R185 560
Q24 BC327
C143 100n
R186 560
Name Triple decoder + RGB amplifier
Article nr. 76 1454
Date 10/03/89
Drawn PG
Checked RDF
Modifications reserved



- All voltages are dc with respect to ground unless otherwise noticed.
- Readings are taken with a 10MΩ digital multimeter

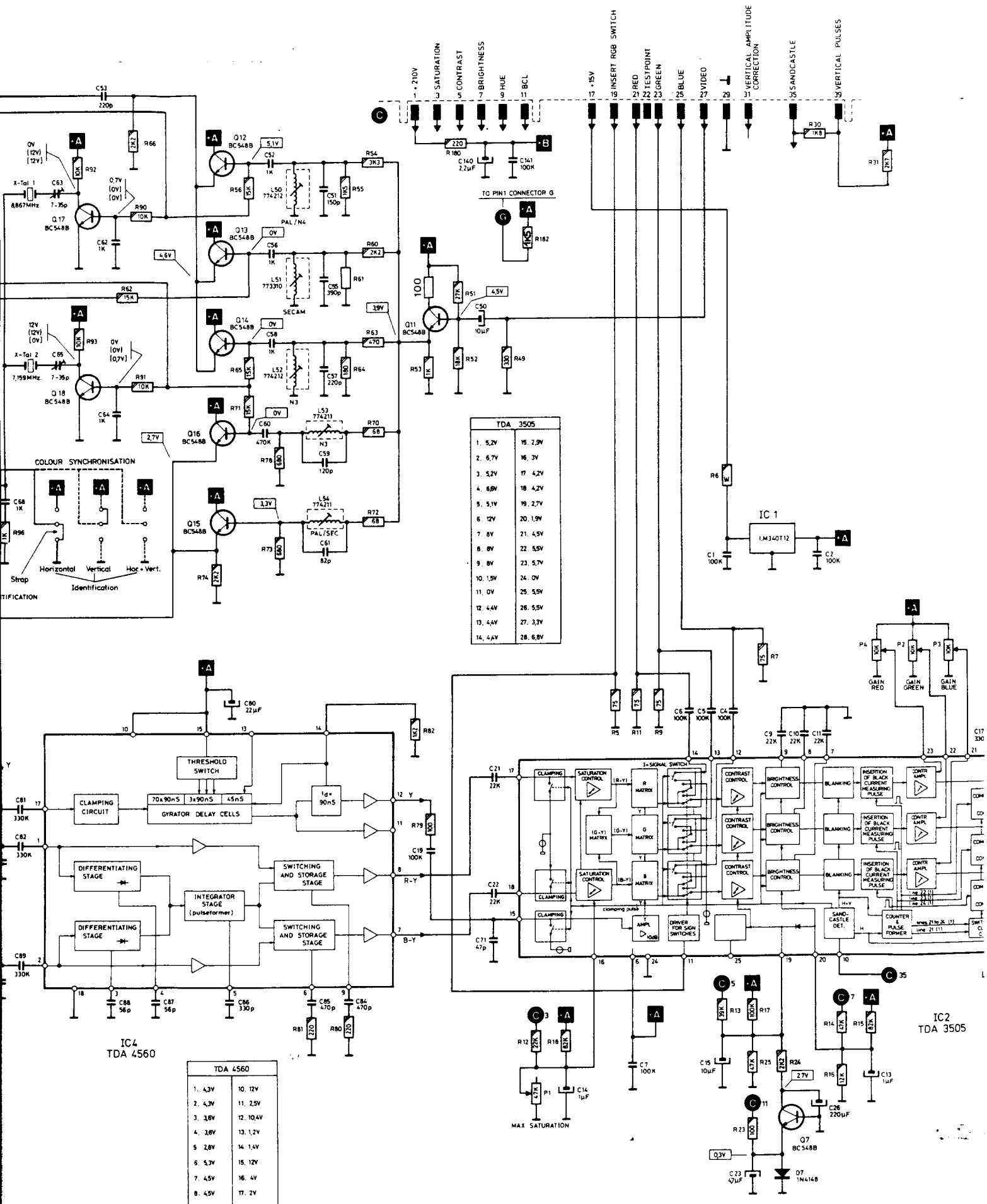
No mark or ( ) : PAL
( ) : SECAM
( ) : NTSC 3,58

PRODUCT SAFETY NOTICE

COMPONENTS MARKED WITH ⚠ OR * HAVE SPECIAL CHARACTERISTICS IMPORTANT TO SAFETY. BEFORE REPLACING ANY OF THESE COMPONENTS, READ CAREFULLY THE SERVICE SAFETY PRECAUTIONS.

DO NOT DEGRADE THE SAFETY OF THIS SET THROUGH IMPROPER SERVICING.

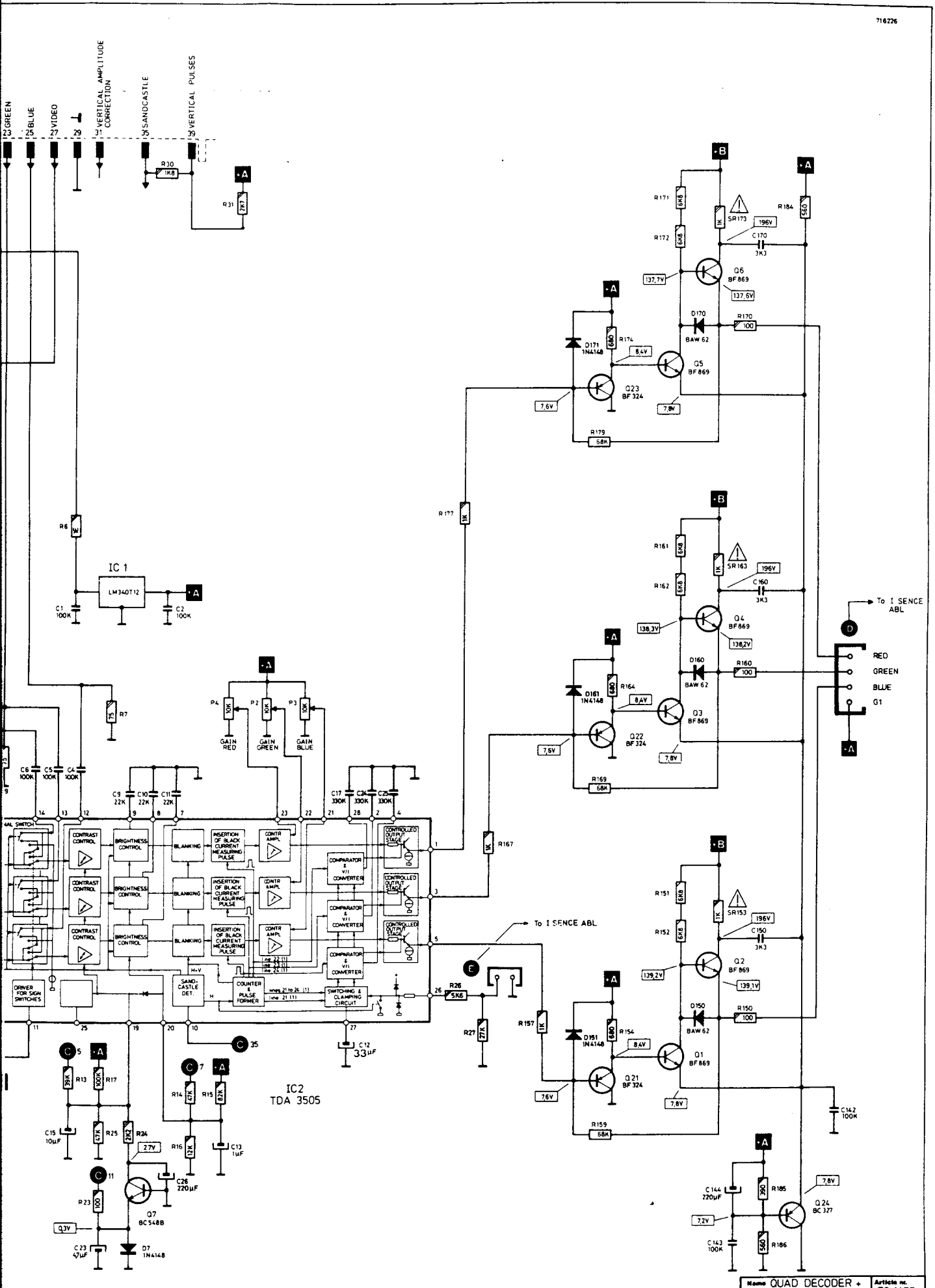
| | | |

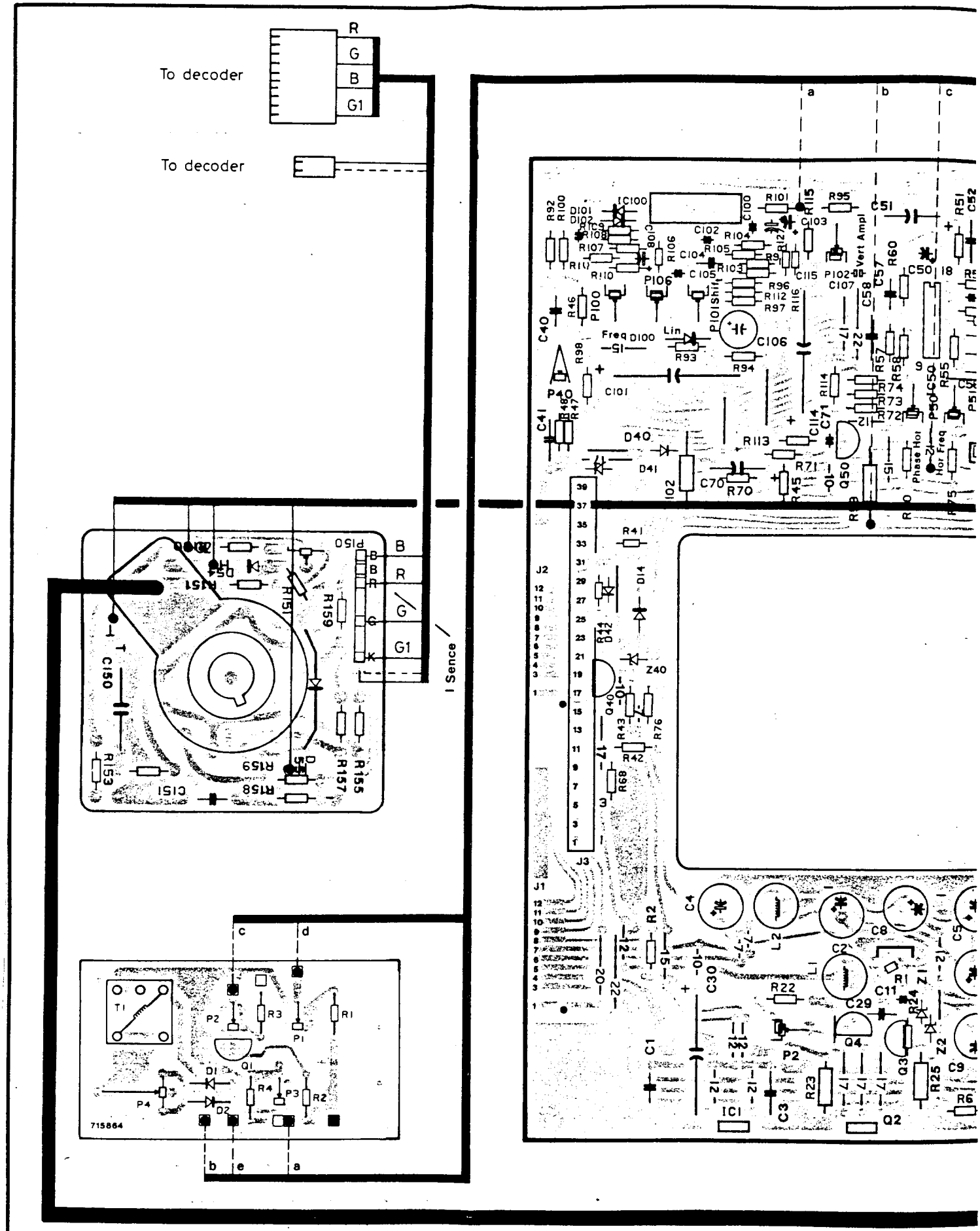


TDA 3505	
1. 5,2V	15. 2,9V
2. 6,7V	16. 3V
3. 5,2V	17. 4,2V
4. 6,8V	18. 4,2V
5. 5,1V	19. 2,7V
6. 12V	20. 1,9V
7. 8V	21. 4,5V
8. 8V	22. 5,5V
9. 8V	23. 5,7V
10. 1,5V	24. 0V
11. 0V	25. 5,5V
12. 4,4V	26. 5,5V
13. 4,4V	27. 3,3V
14. 4,4V	28. 6,8V

TDA 4560	
1. 4,3V	10. 12V
2. 4,3V	11. 2,5V
3. 3,6V	12. 10,4V
4. 3,6V	13. 1,2V
5. 2,8V	14. 1,4V
6. 5,3V	15. 12V
7. 4,5V	16. 4V
8. 4,5V	17. 2V
9. 5,3V	18. 0V

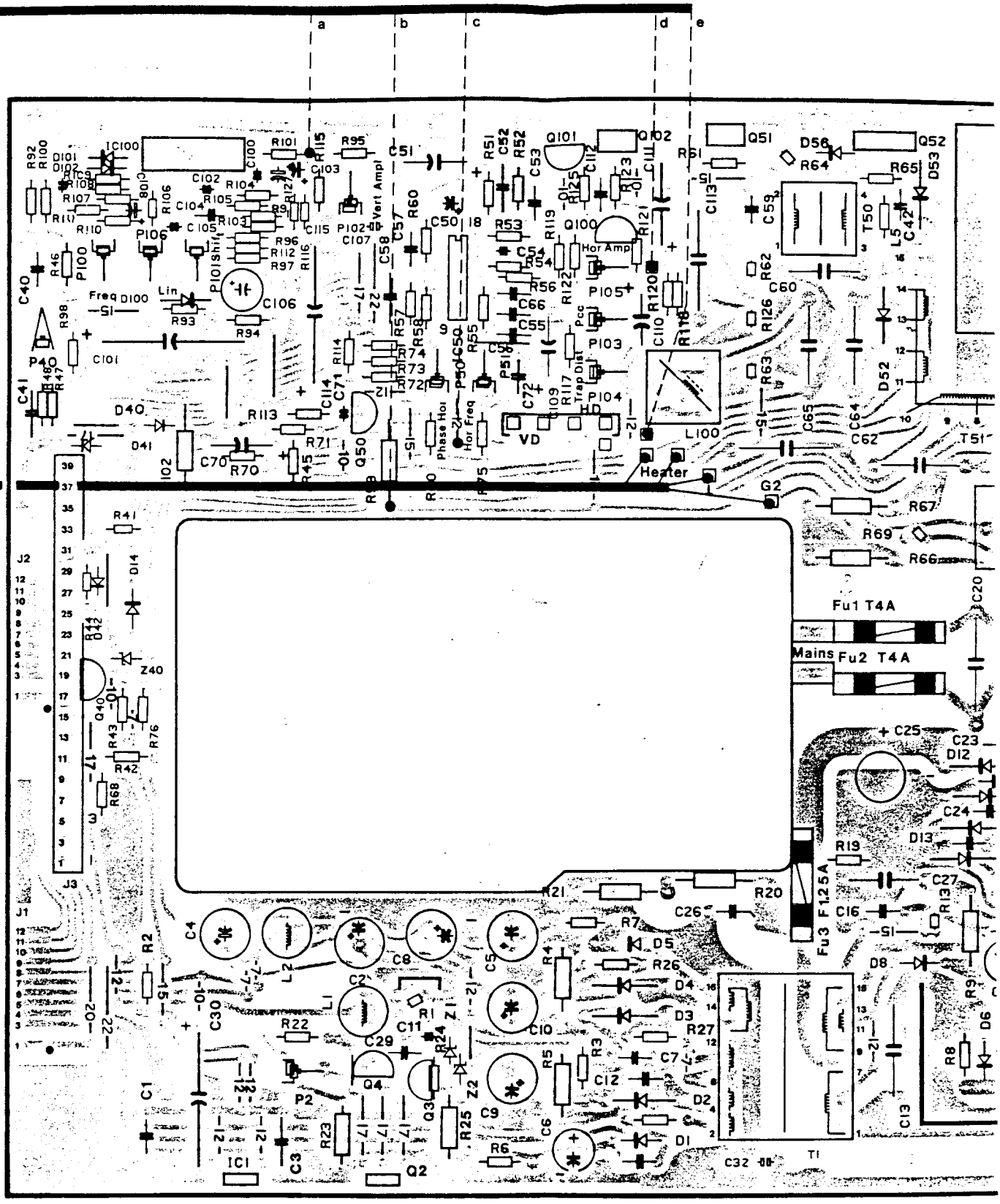
| | | |

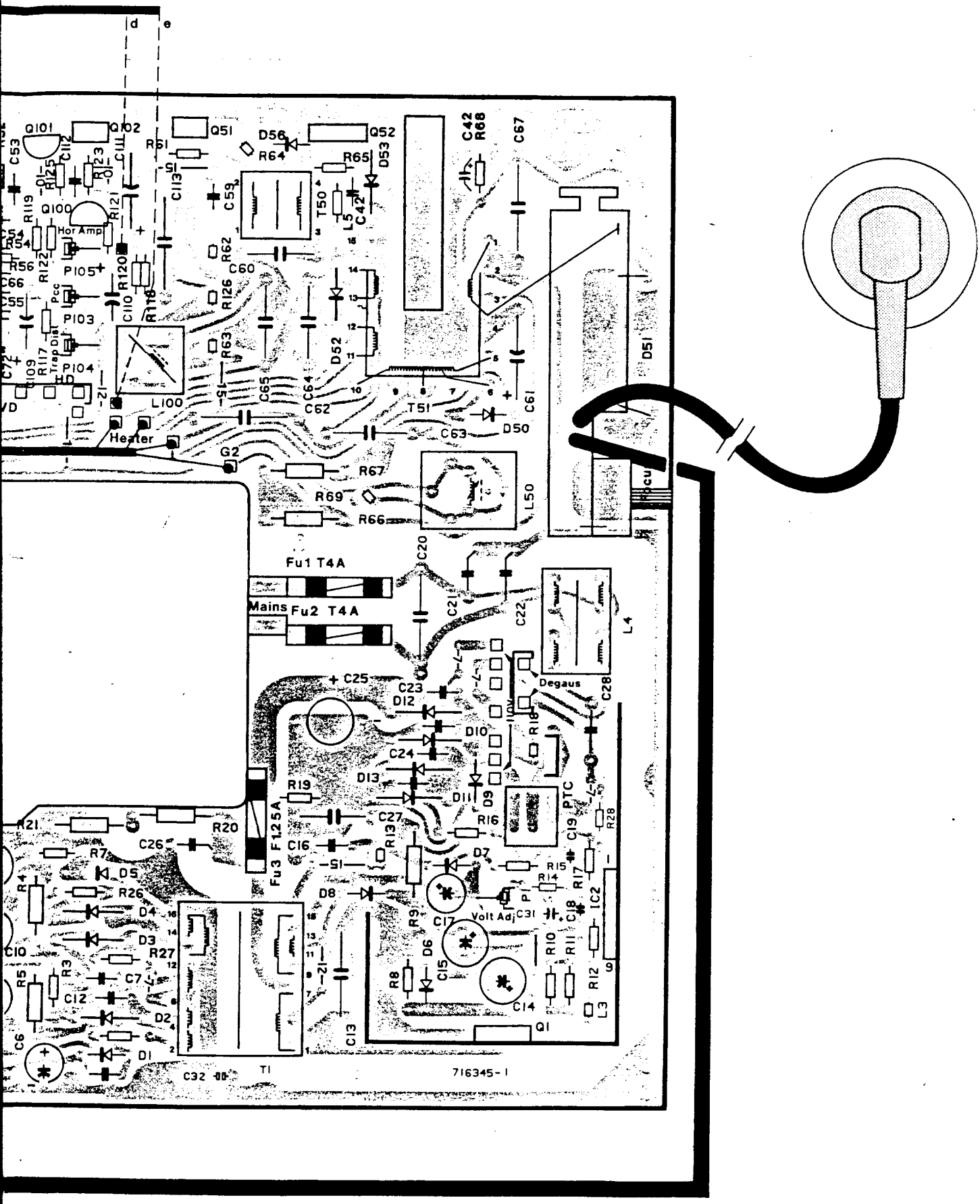

716226
GREEN
BLUE
VIDEO
VERTICAL AMPLITUDE CORRECTION
SANDCASTLE
VERTICAL PULSES
IC 1
LM340T12
IC2
TDA 3505
To I SENCE ABL
RED
GREEN
BLUE
G1
MODIFICATIONS RESERVED
QUAD DECODER + RGB AMPLIFIER
Article nr. 76 1455
Drawn PG
Checked RDF
BARCO Electronic



Name	Article nr.
FRAME SUP	76 1408X
Date	Drawn
Checked CD	

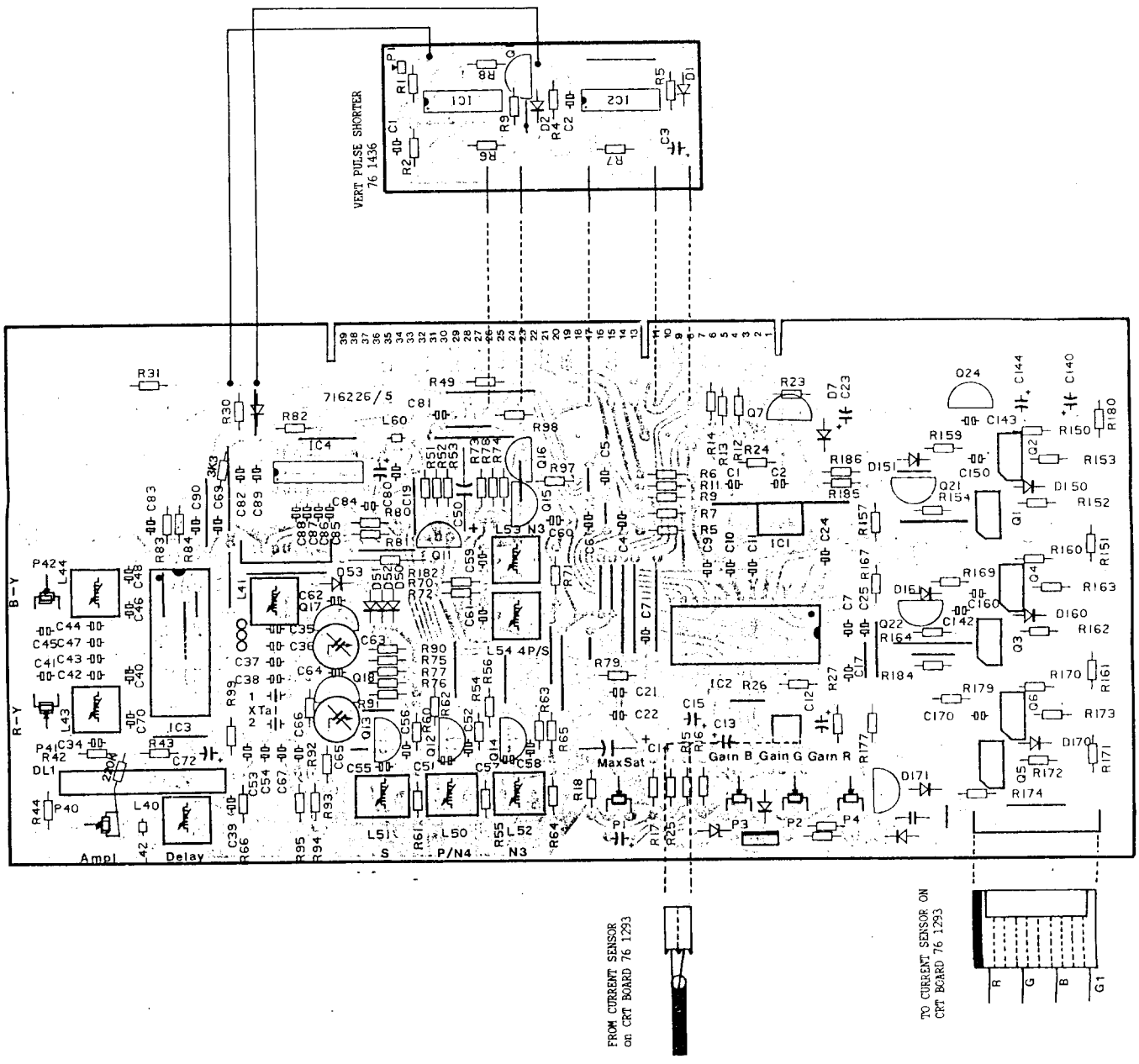
BARCO Electronic


a
b
c
d
e
IC100
Vert Ampl
Hor Amp
Freq
Lin
Phase Hor
Hor Freq
Trap Dist
Pcc
HD
VD
Heater
G2
Fu1 T4A
Mains
Fu2 T4A
Fu3 F1.25A
T1
IC1
Q2
B
R
G
G1
I Sence

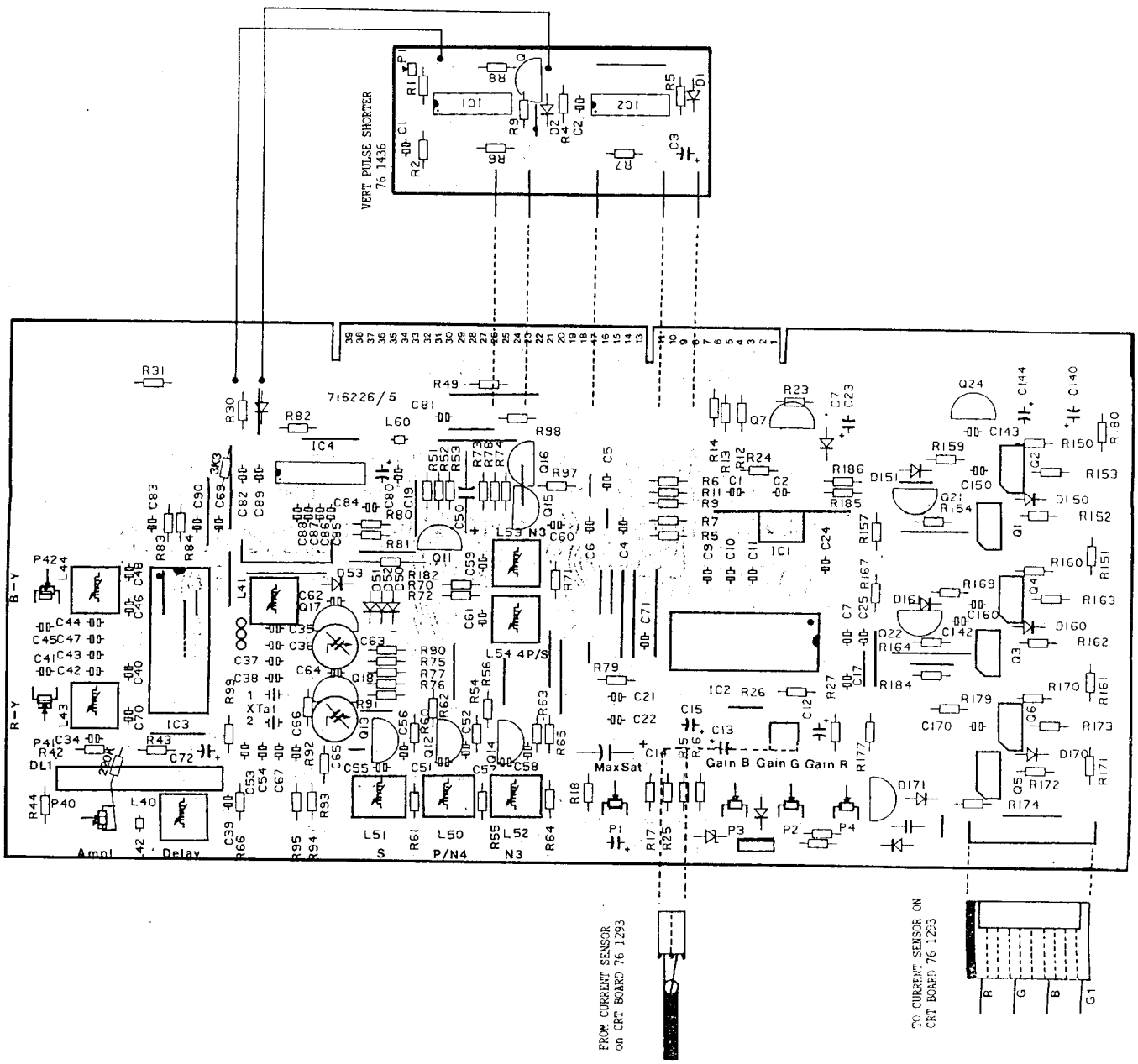


MODIFICATIONS RESERVED

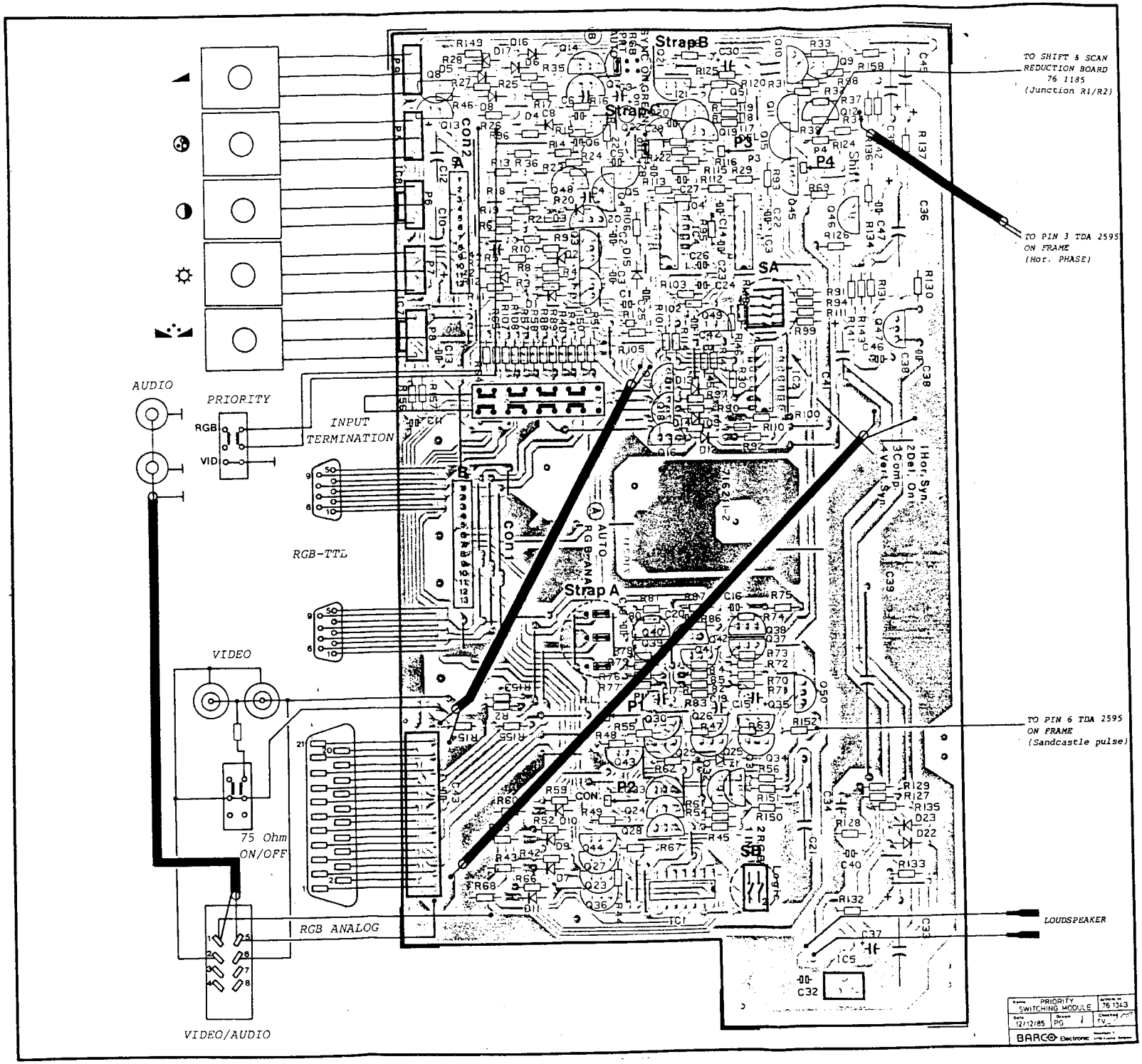
MODIFICATIONS RESERVED

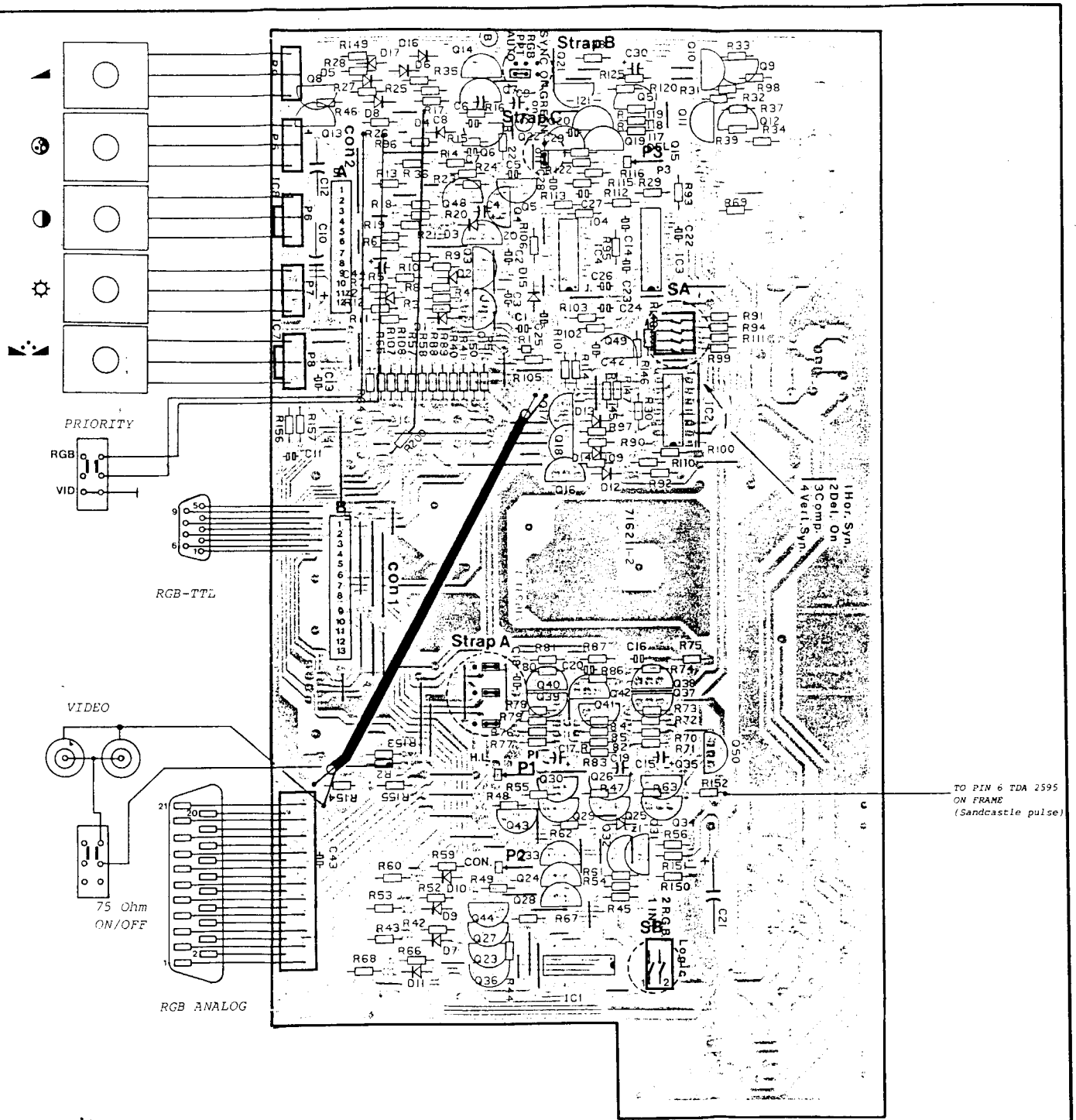


MODIFICATIONS RESERVED



BARCO Electronic

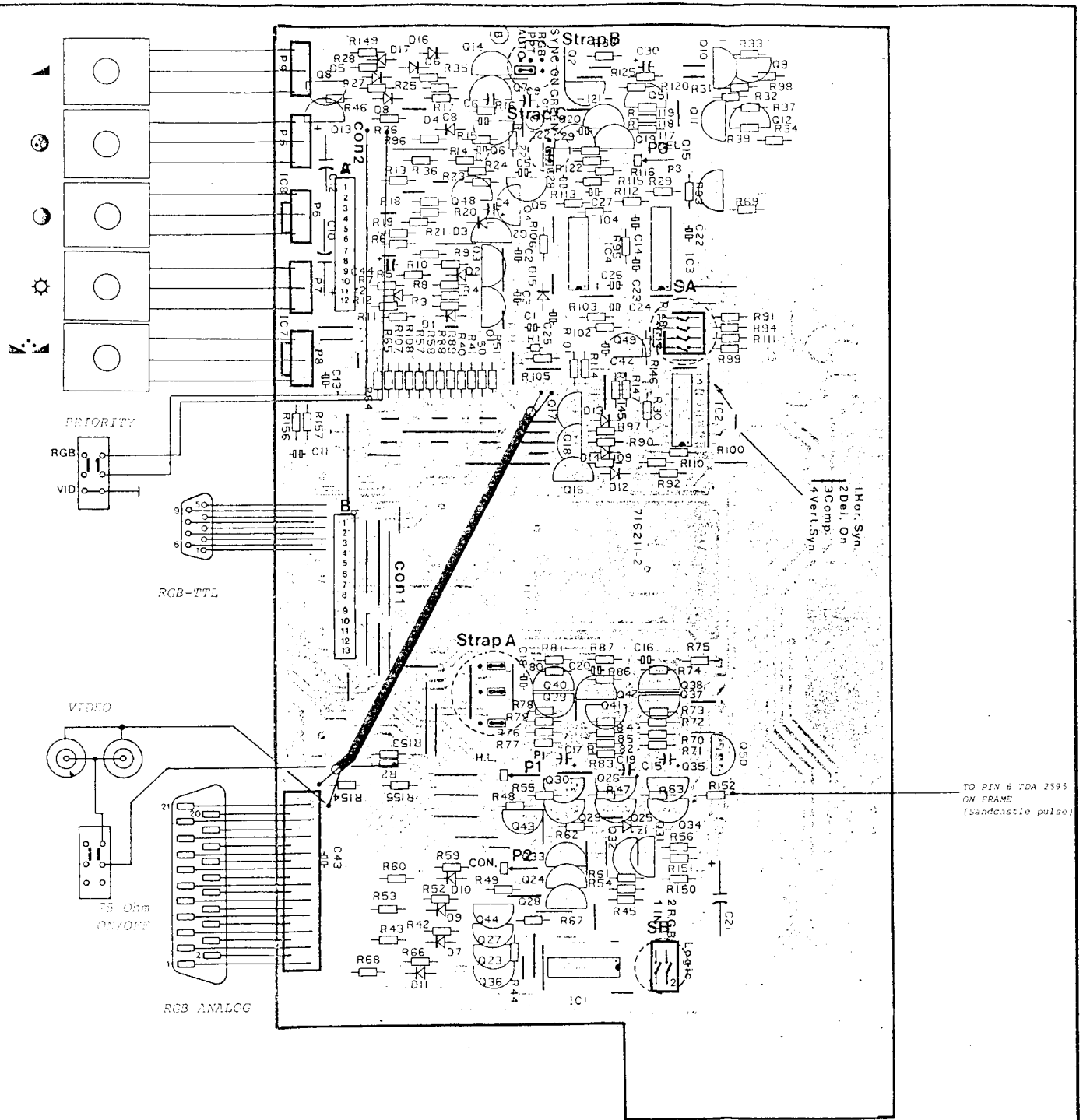

AUDIO
PRIORITY
RGB
VID
INPUT
TERMINATION
RGB-TTL
VIDEO
75 Ohm
ON/OFF
RGB ANALOG
VIDEO/AUDIO
Strap B
Strap C
Strap A
SA
SB
P1
P2
P3
P4
Con1
Con2
TO SHIFT & SCAN
REDUCTION BOARD
76 1185
(Junction R1/R2)
TO PIN 3 TDA 2595
ON FRAME
(Hor. PHASE)
TO PIN 6 TDA 2595
ON FRAME
(Sandcastle pulse)
LOUDSPEAKER
PRIORITY
SWITCHING MODULE
76 1343
12/12/85
PG
BARCO Electronic



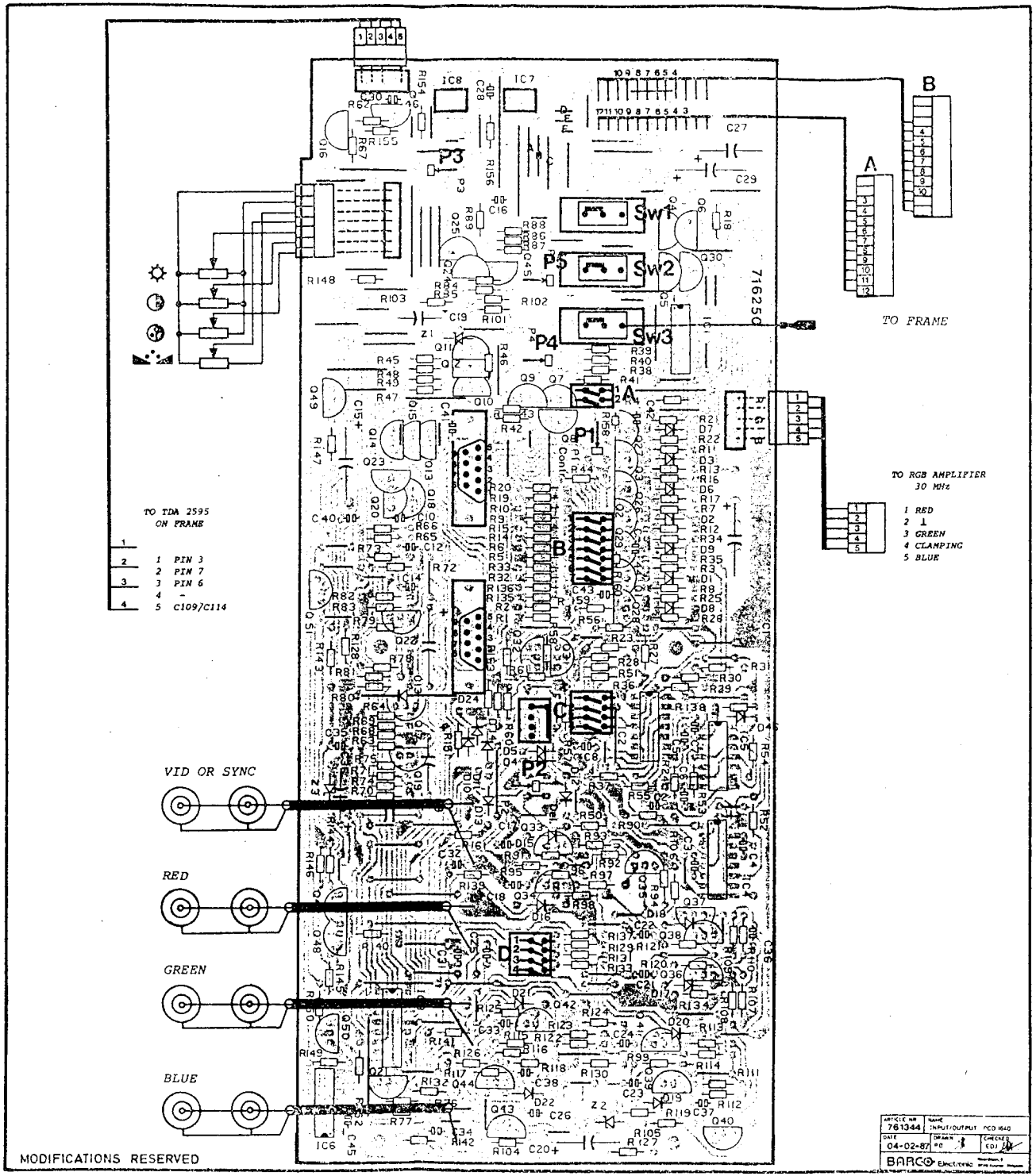
PRIORITY SWITCHING MODULE		76 13411
12/12/85	PG	TV

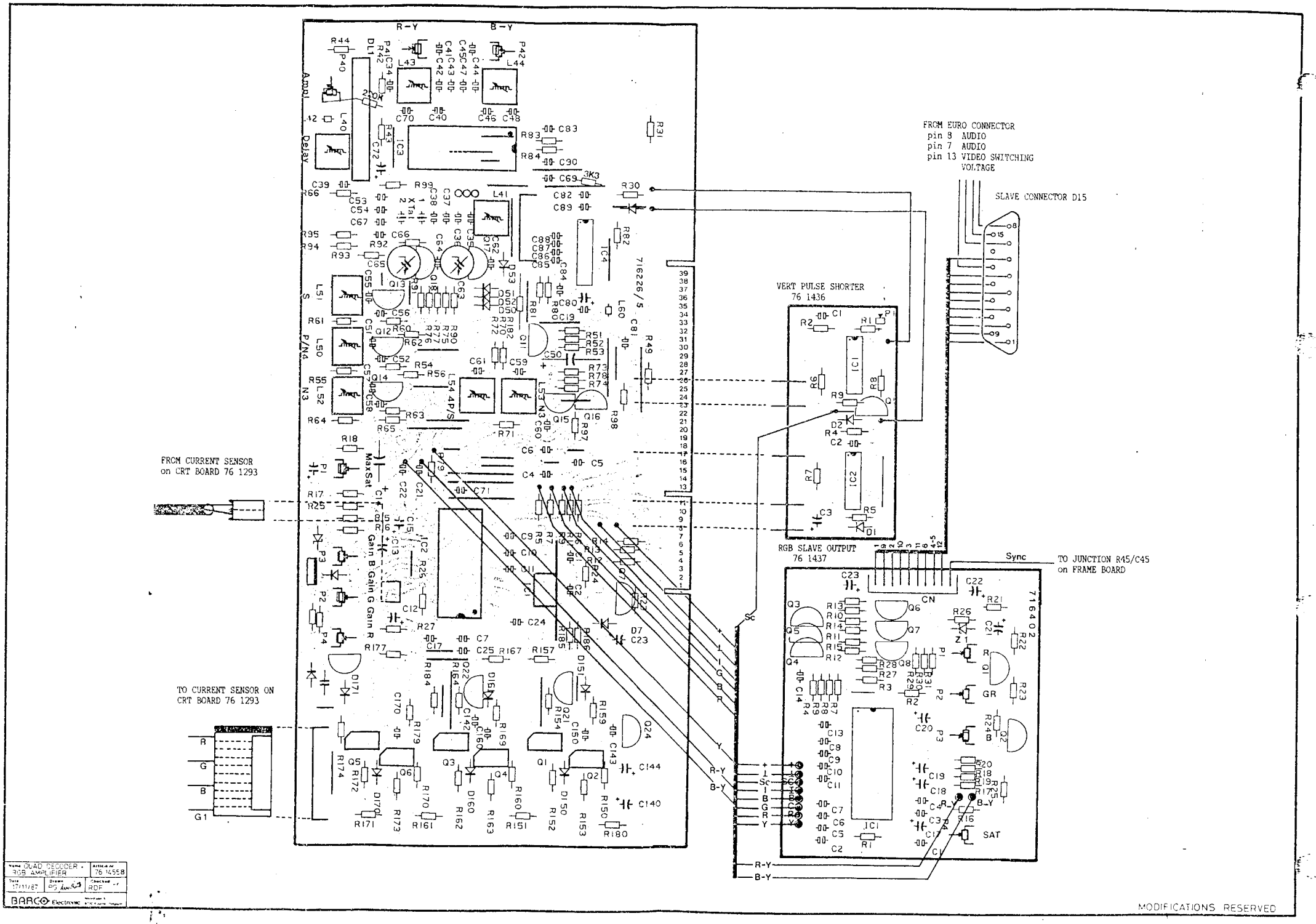
BARCO Electronic

MODIFICATIONS RESERVED



PRIORITY SWITCHING MODULE		76.1341
12/12/95	PS	1
BARCO Electronic		

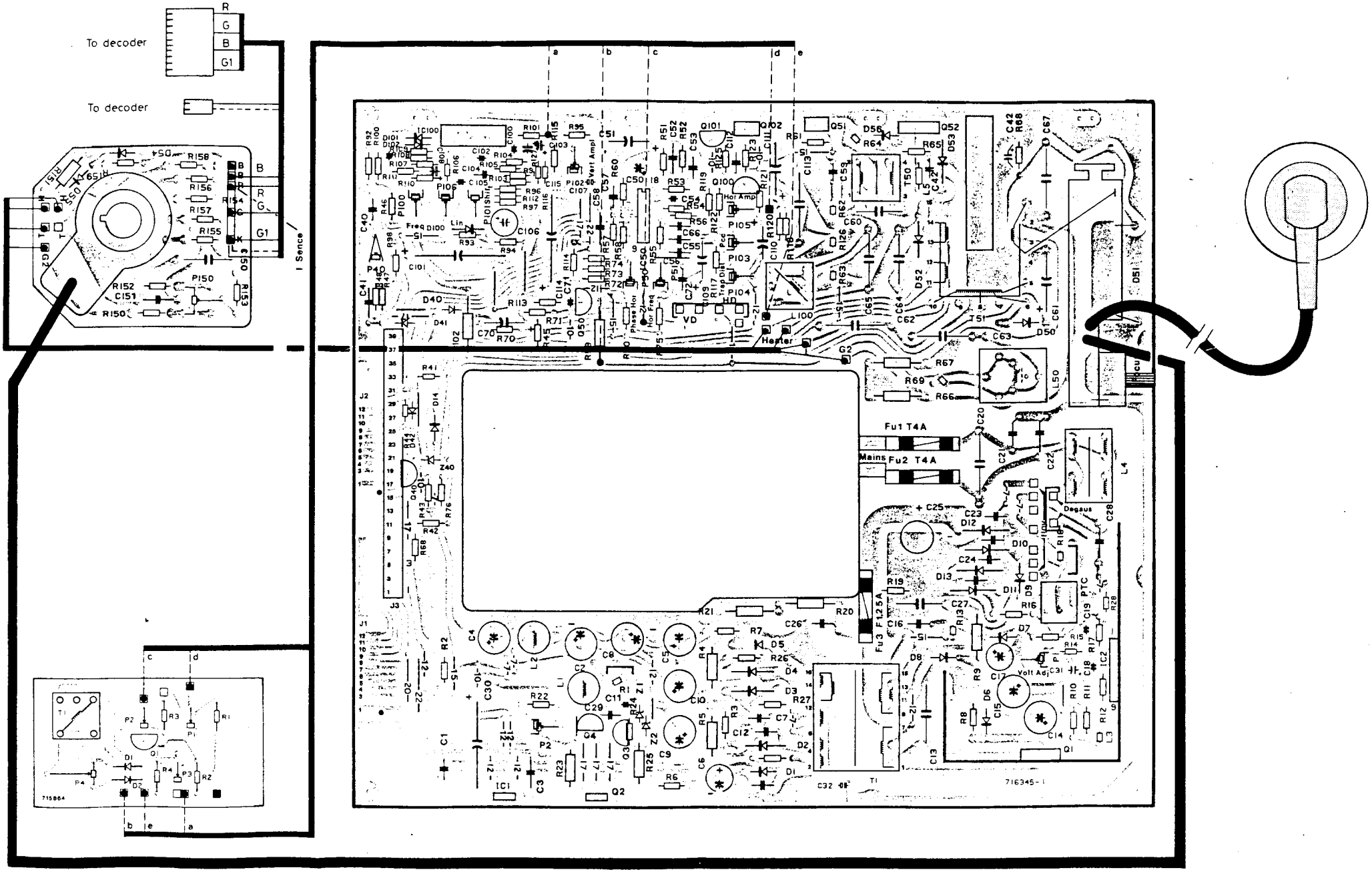

TO TDA 2595
ON FRAME
1
2 1 PIN 3
2 PIN 7
3 PIN 6
4 -
5 C109/C114
TO FRAME
TO RGB AMPLIFIER
30 MHz
1 RED
2 ⊥
3 GREEN
4 CLAMPING
5 BLUE
VID OR SYNC
RED
GREEN
BLUE
P1
P2
P3
P4
P5
Sw1
Sw2
Sw3
A
B
C
D
716250
MODIFICATIONS RESERVED
ARTICLE NR 761344
NAME INPUT/OUTPUT PCD 1640
DATE 04-02-87
DRAWN RD
CHECKED EDJ
BARCO Electronic



name QUAD DECODER + RGB AMPLIFIER		article nr 76 1455B
date 17/11/87	drawn PG	checked RDF

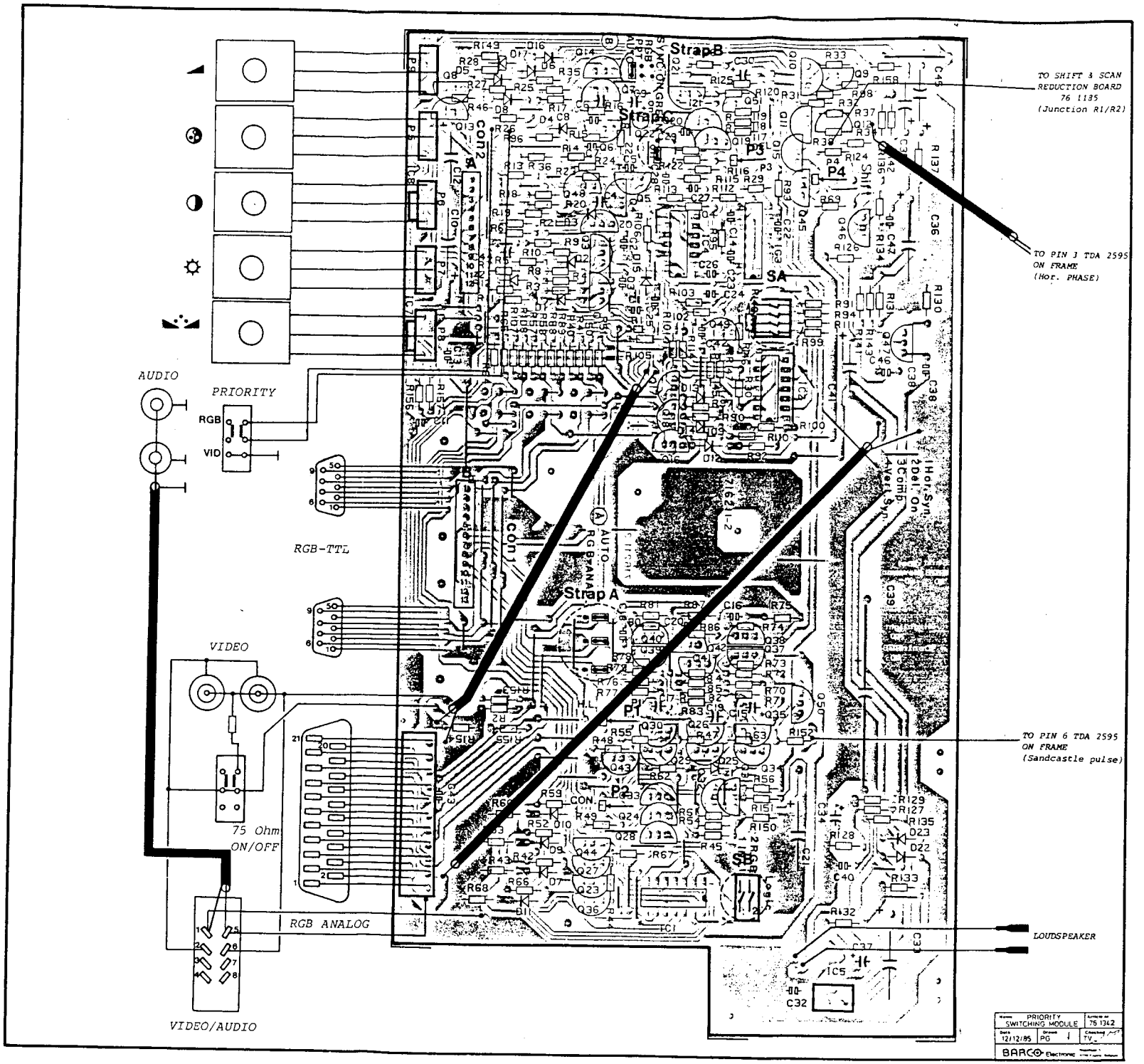
BARCO Electronic

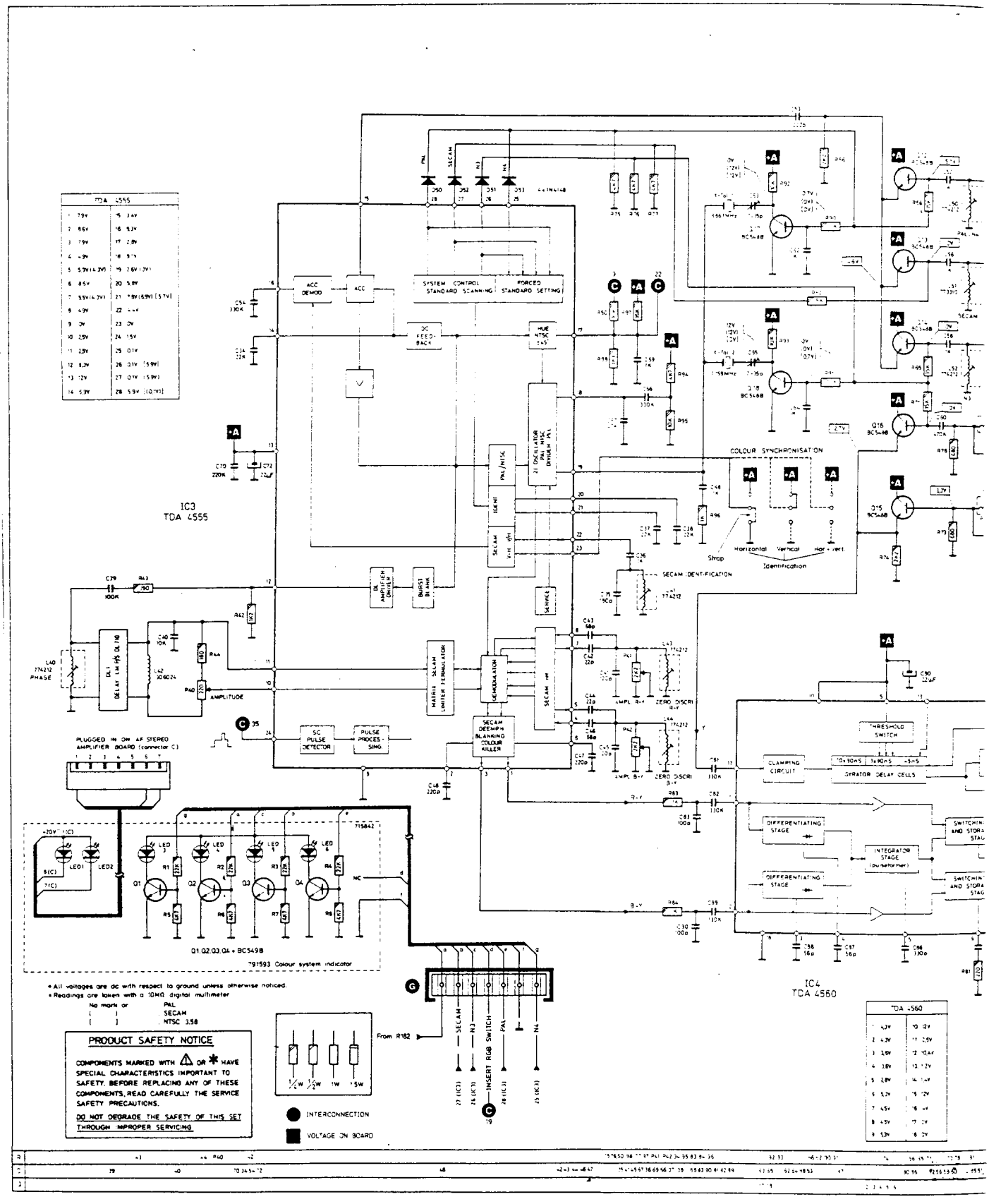
MODIFICATIONS RESERVED



Model: FRAME SUP	Drawing No: 7613720	
Date	Drawn	Checked: CD
BARCO Electronic		

MODIFICATIONS RESERVED


AUDIO
PRIORITY
RGB
VID
RGB-TTL
VIDEO
75 Ohm
ON/OFF
RGB ANALOG
VIDEO/AUDIO
Strap B
Strap C
Strap A
SA
SB
P1
P2
P3
P4
P5
P6
P7
P8
CON1
CON2
TO SHIFT & SCAN
REDUCTION BOARD
76 1185
(Junction R1/R2)
TO PIN 3 TDA 2595
ON FRAME
(Hor. PHASE)
TO PIN 6 TDA 2595
ON FRAME
(Sandcastle pulse)
LOUDSPEAKER
PRIORITY
SWITCHING MODULE
76 1342
12/12/95
PG
1
BARCO Electronic

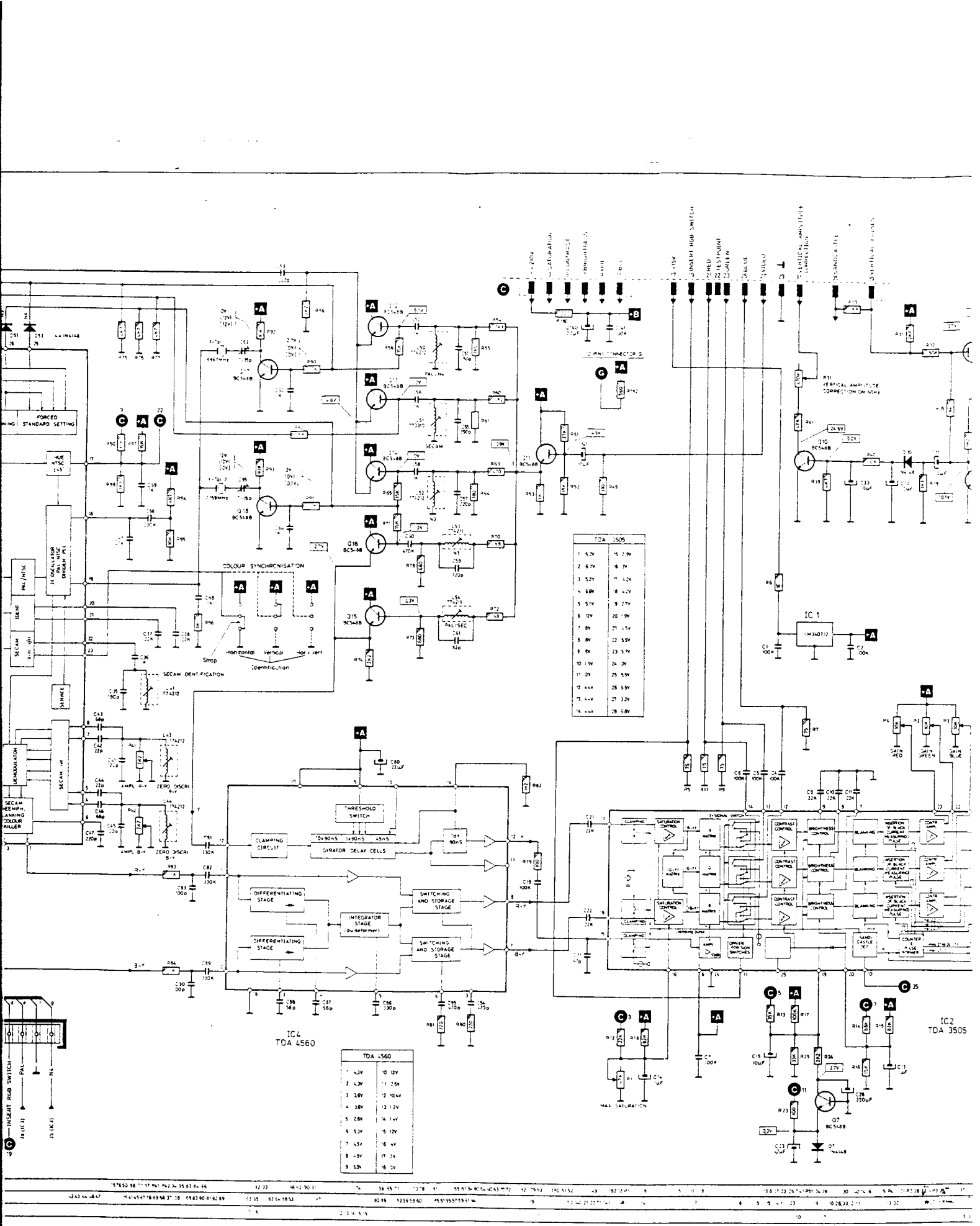


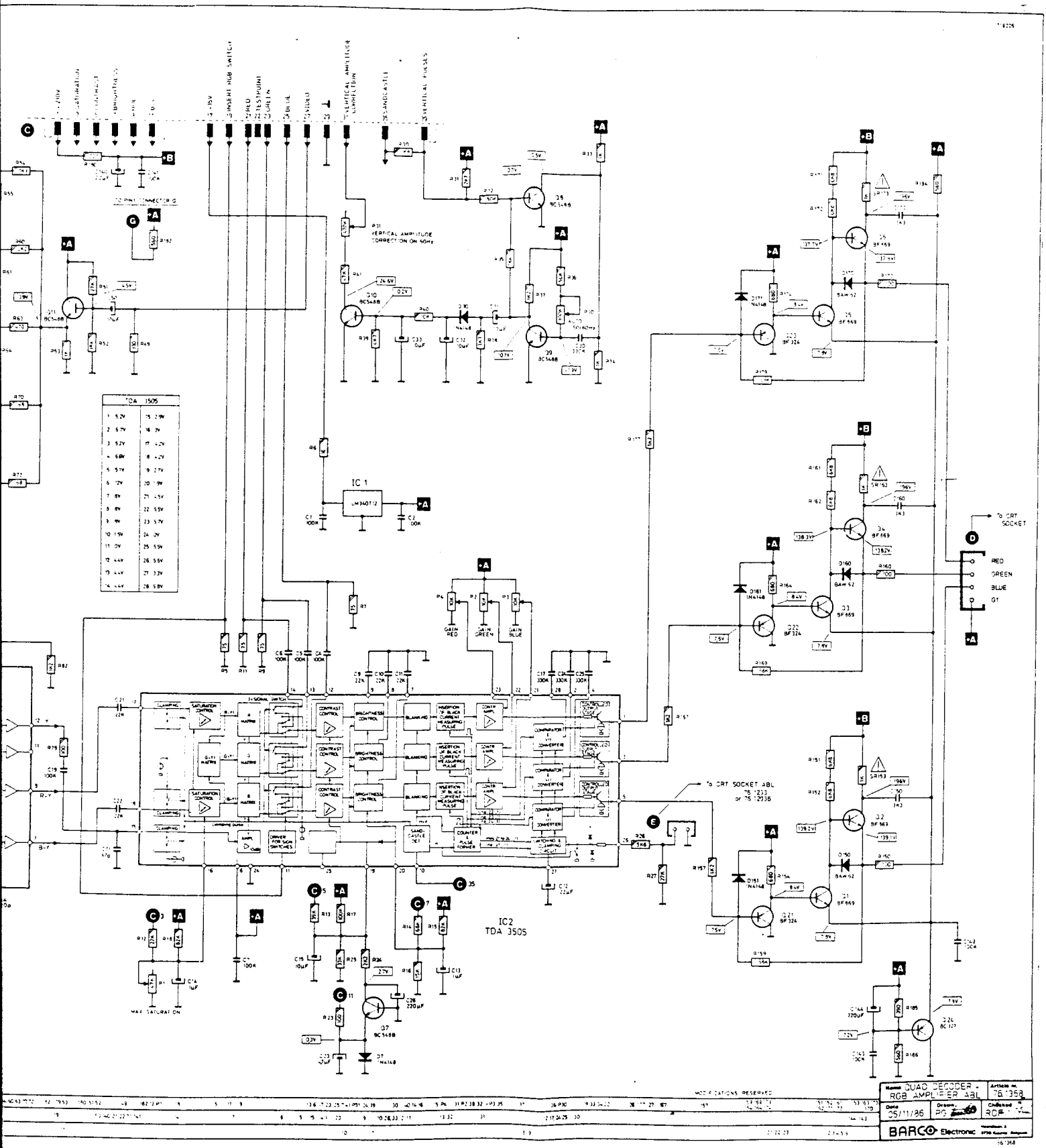
TDA 4555	
1	7.9V
2	8.6V
3	7.9V
4	4.9V
5	5.9V (4.2V)
6	8.6V
7	5.5V (4.2V)
8	4.9V
9	2V
10	2.5V
11	2.5V
12	5.2V
13	12V
14	5.9V
15	7.4V
16	9.2V
17	2.8V
18	9.1V
19	2.6V (3V)
20	5.8V
21	7.8V (6.9V) [5.7V]
22	4.4V
23	0V
24	1.5V
25	0.1V
26	0.1V (5.9V)
27	0.1V (5.9V)
28	5.9V (10.1V)

TDA 4560			
1	4.3V	10	12V
2	4.3V	11	2.5V
3	3.8V	12	10.4V
4	3.8V	13	12V
5	2.8V	14	11.4V
6	5.2V	15	12V
7	4.5V	16	4V
8	4.3V	17	2V
9	5.2V	18	2V

* All voltages are dc with respect to ground unless otherwise noticed.
* Readings are taken with a 10MΩ digital multimeter

No mark or	PAL
( )	SECAM
[ ]	NTSC 3.58


IC4
TDA 4560
IC2
TDA 3505
IC 1
SECAM IDENTIFICATION
COLOUR SYNCHRONISATION
THRESHOLD SWITCH
CLAMPING CIRCUIT
GYRATOR DELAY CELLS
DIFFERENTIATING STAGE
INTEGRATOR STAGE
SWITCHING AND STORAGE STAGE
FORCED STANDARD SETTING
INSERT RGB SWITCH
MAX SATURATION
TDA 4560
TDA 3505



TDA 3505	
1 5.2V	15 2.9V
2 5.7V	16 3V
3 5.2V	17 4.2V
4 5.8V	18 4.2V
5 5.1V	19 2.7V
6 12V	20 1.9V
7 8V	21 4.5V
8 8V	22 5.5V
9 9V	23 5.7V
10 13V	24 3V
11 0V	25 5.5V
12 4.4V	26 5.5V
13 4.4V	27 3.3V
14 4.4V	28 5.8V

Name	QUAD DECODER + RGB AMPLIFIER ABL	Article nr.	76.1358
Date	05/11/86	Drawn	PC
		Checked	ROF

BARCO Electronic

MODIFICATIONS RESERVED